

Summary of Key Briefing Points
1030-1130am MST Feb February 12, 2016

Current Conditions as of FRI 12Z-15Z February 12

Tropics and Mid-latitudes

Over the Tropical Pacific:

- Convection: An active SW-NE band (170W, 0) to (155W, 4N) in FD this morning.
- Some eastward re-development of convective elements, with westward displacement overall
- Satellite upper level winds show 20-30kt NW winds across the east portion of FD today, to EQ
- Upper level anticyclonic circulation centered 5N, 160W
- Implied thermodynamic stability low in the anticyclonic shear region of south-central portion of FD

Tropical Outlook

- GFS EC models indicate convection to be active in the southern half of domain today, weaker Saturday.
- Convection in the FD gradually increase in coverage, and shifts northward to near 5N during Mon-Wed period
- Subtropical convection associated with cutoff low to develop Sat 15N, 130W
- Moisture feed from the subtropical low into developing CA storm Tues next week.

Midlatitude Conditions/Outlook

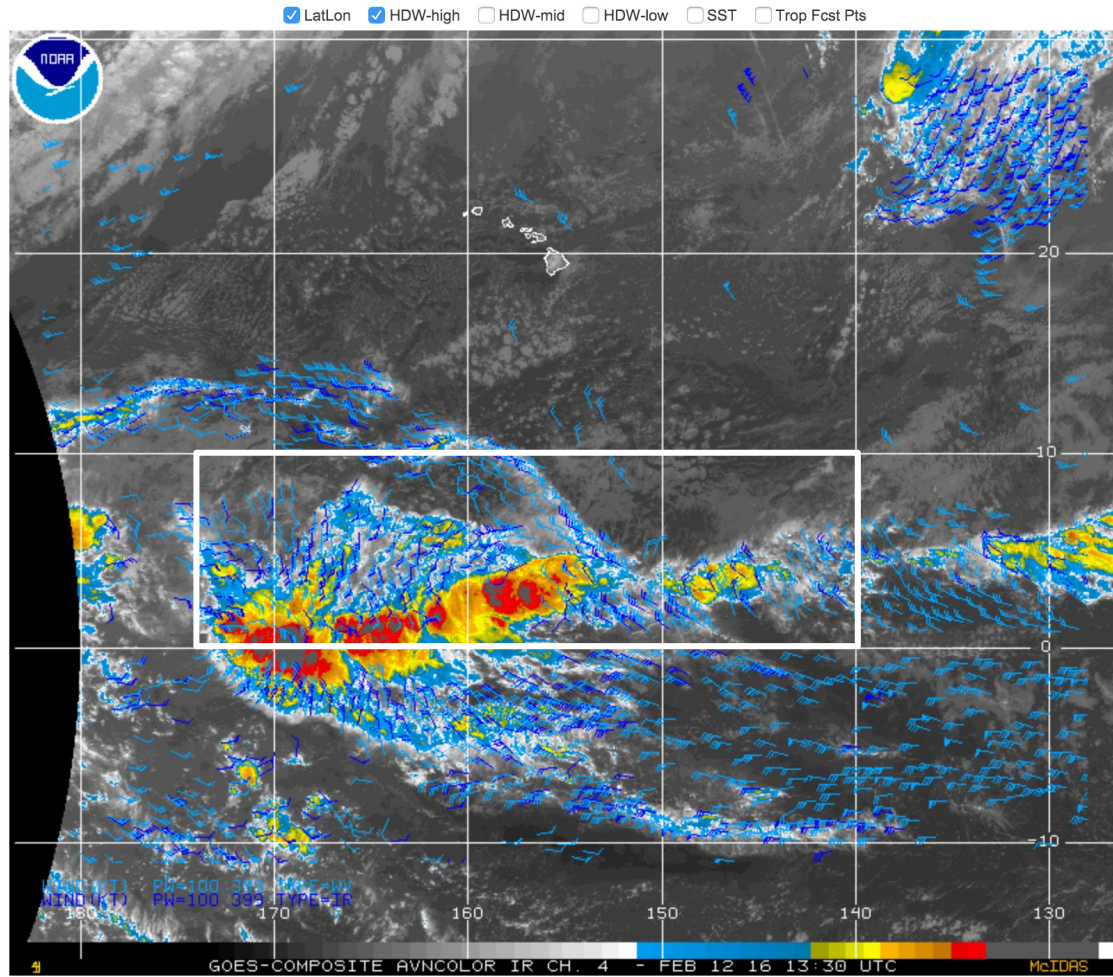
Short Term:

- CA to be mostly dry through Tuesday 16 Feb

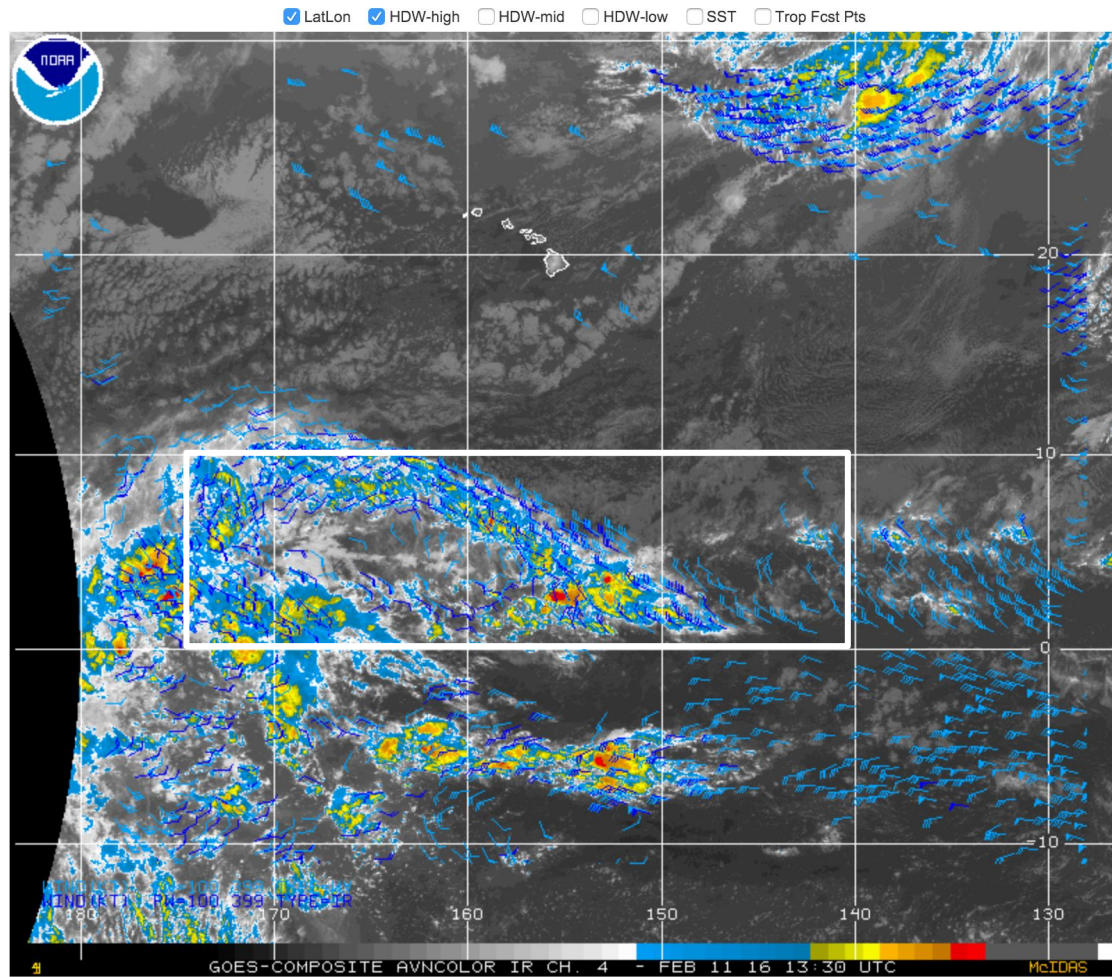
Medium - Long Term:

- Day 0-5 accumulated pcpn for CA shows little pcpn
- EC/GFS return rainfall for Week-2, as troughing develops just west of CA.
- Indications for strong interaction of equatorial eastcentral convection, subtropical jet and WCOAST storm early next week.

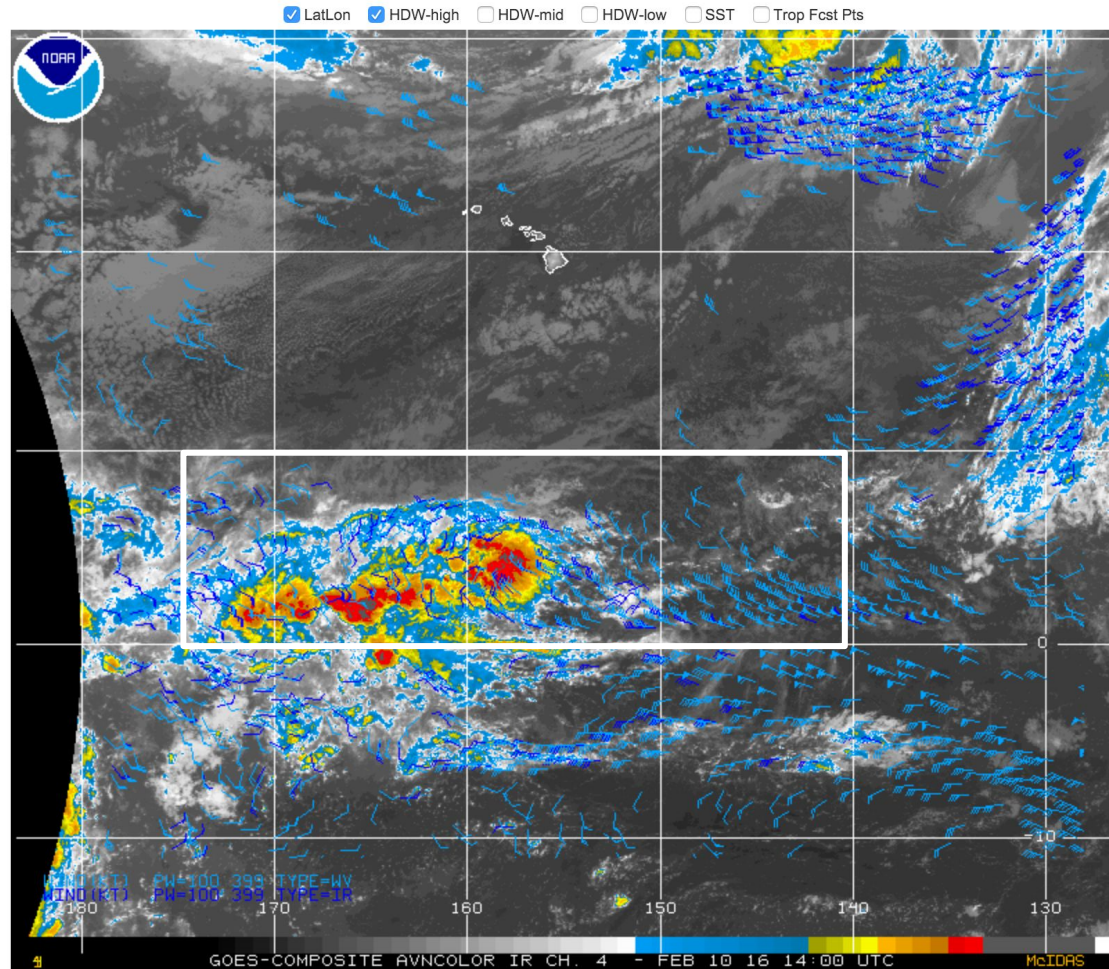
GOES Composite - El Niño Support – AVN Color Infrared Loop



GOES Composite - El Niño Support – AVN Color Infrared Loop

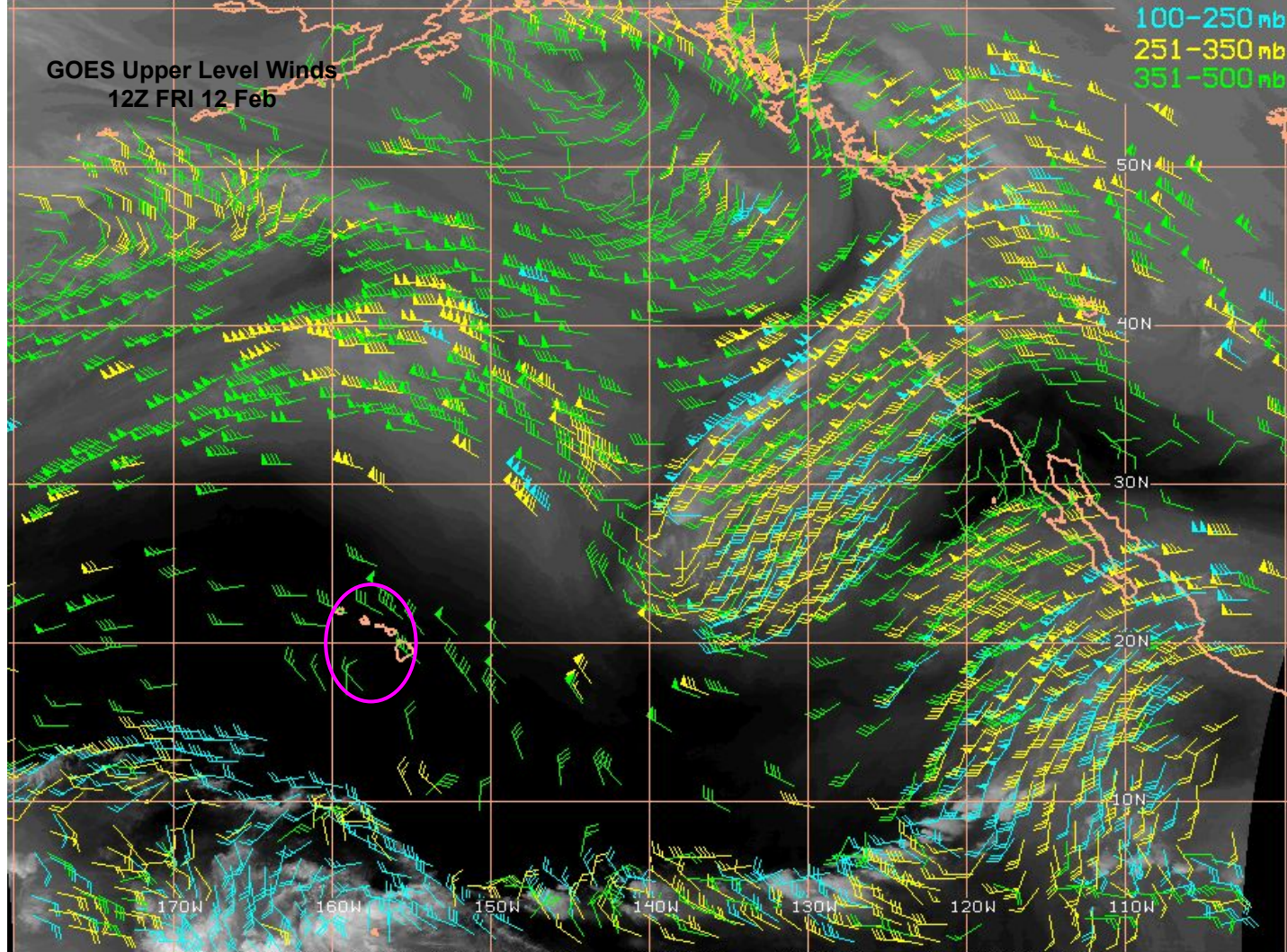


GOES Composite - El Niño Support – AVN Color Infrared Loop



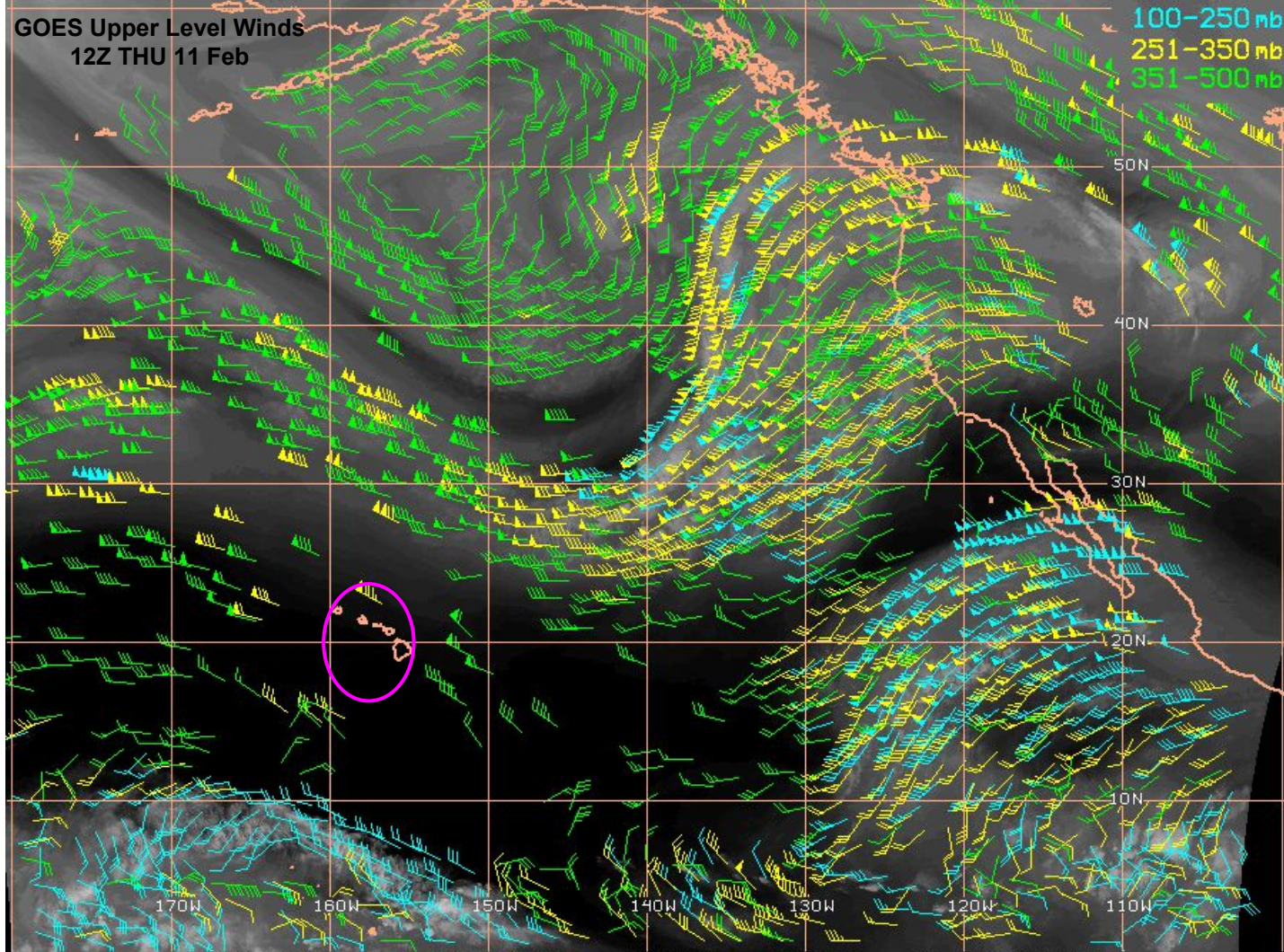
GOES Upper Level Winds
12Z FRI 12 Feb

100-250 mb
251-350 mb
351-500 mb



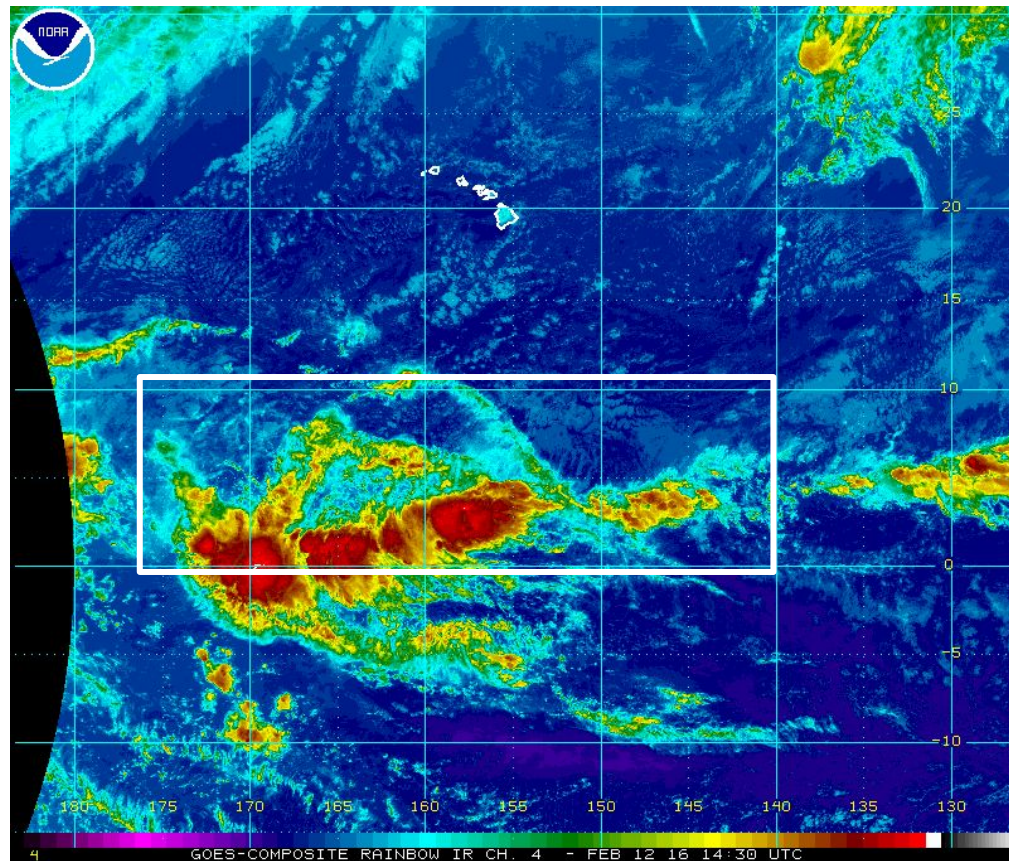
GOES Upper Level Winds
12Z THU 11 Feb

100-250 mb
251-350 mb
351-500 mb

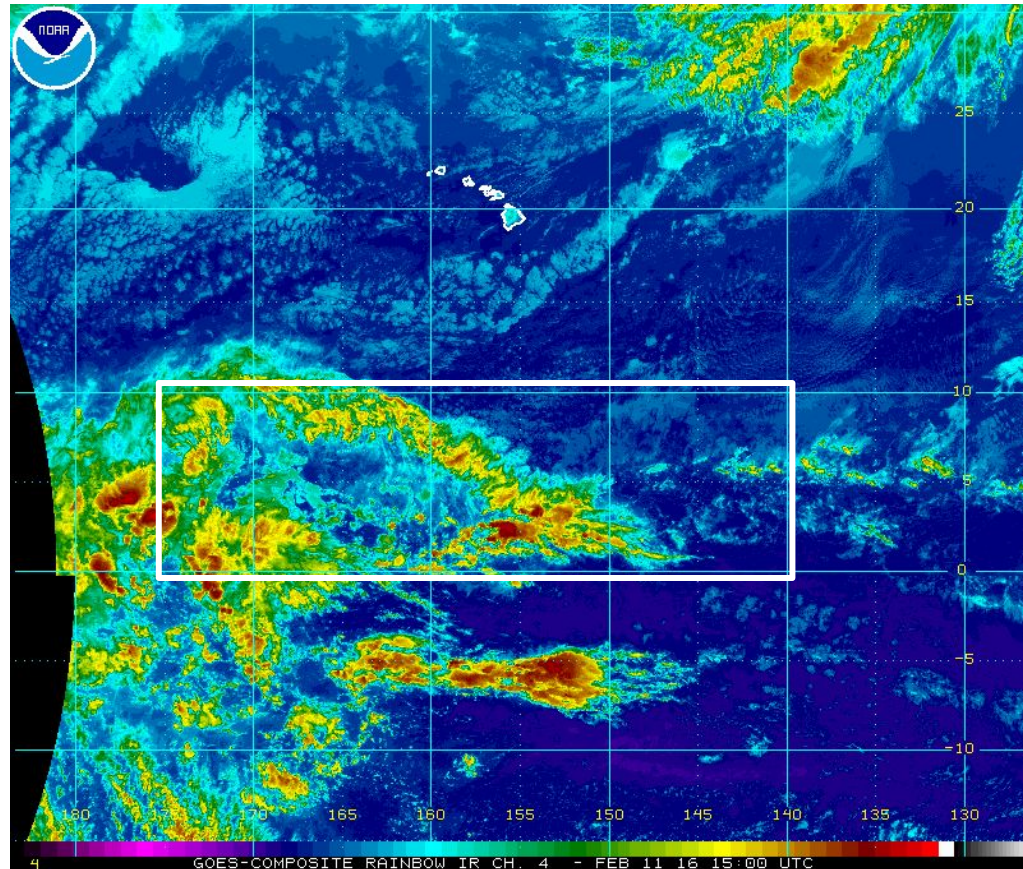


GOES-WEST MID-UPPER LEVEL WINDS 1200 UTC 11FEB16 UW-CIMSS/NESDIS

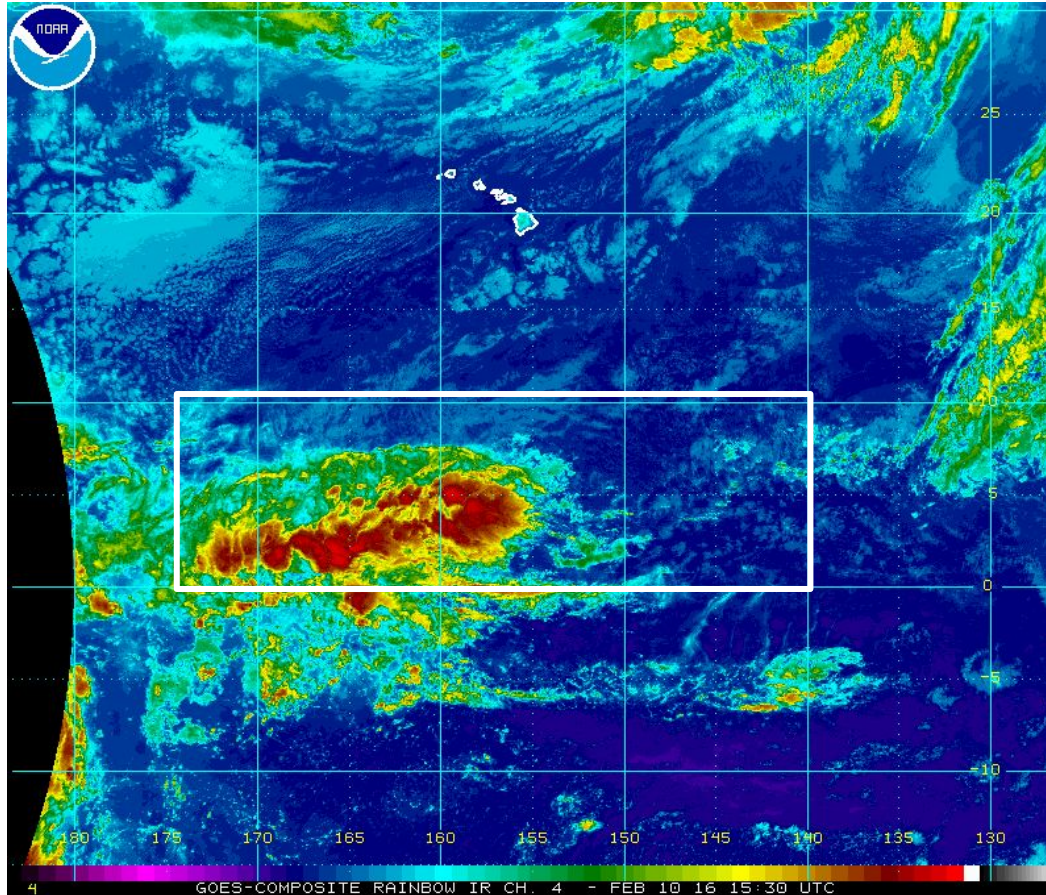
Fri 1430Z February 12 Enhanced IR Image



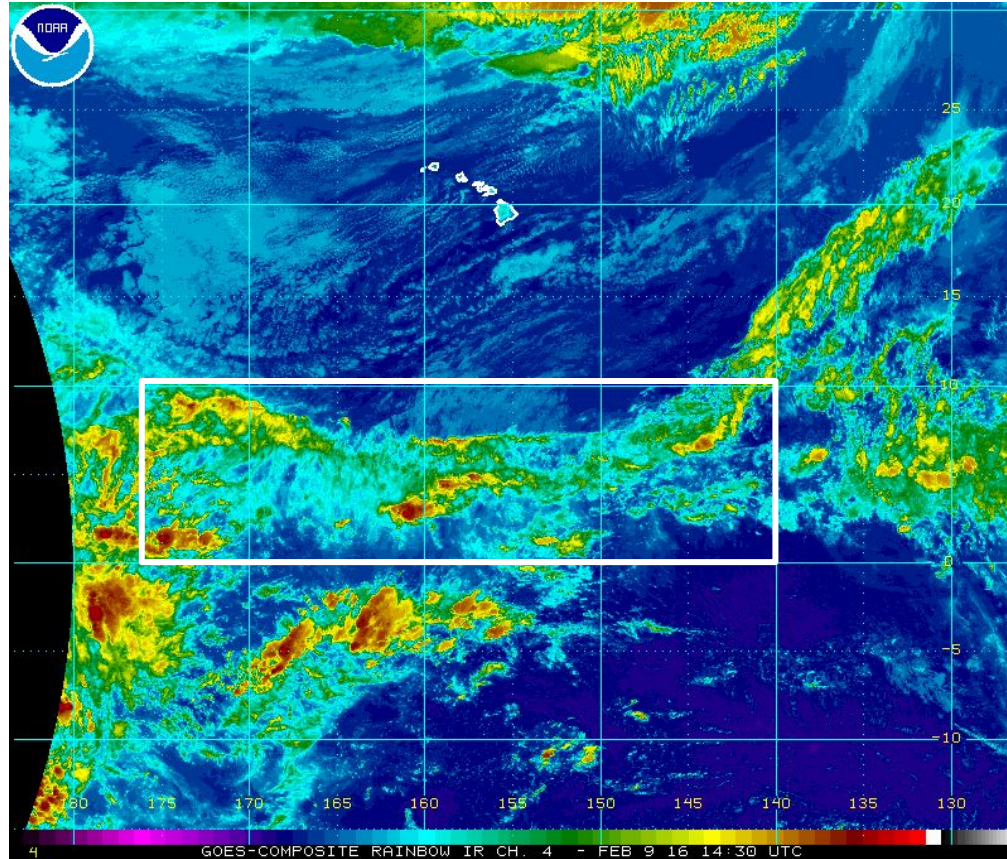
THU 15Z February 11 Enhanced IR Image



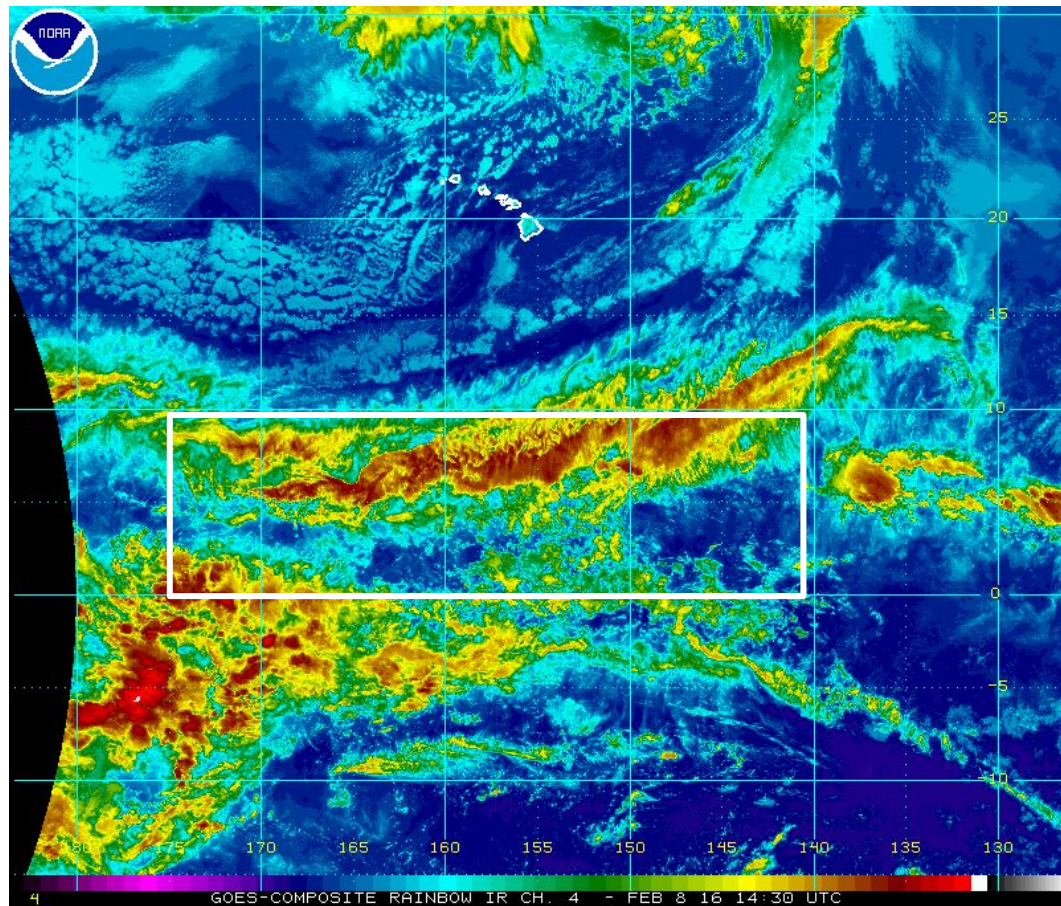
WED 15:30Z February 10 Enhanced IR Image



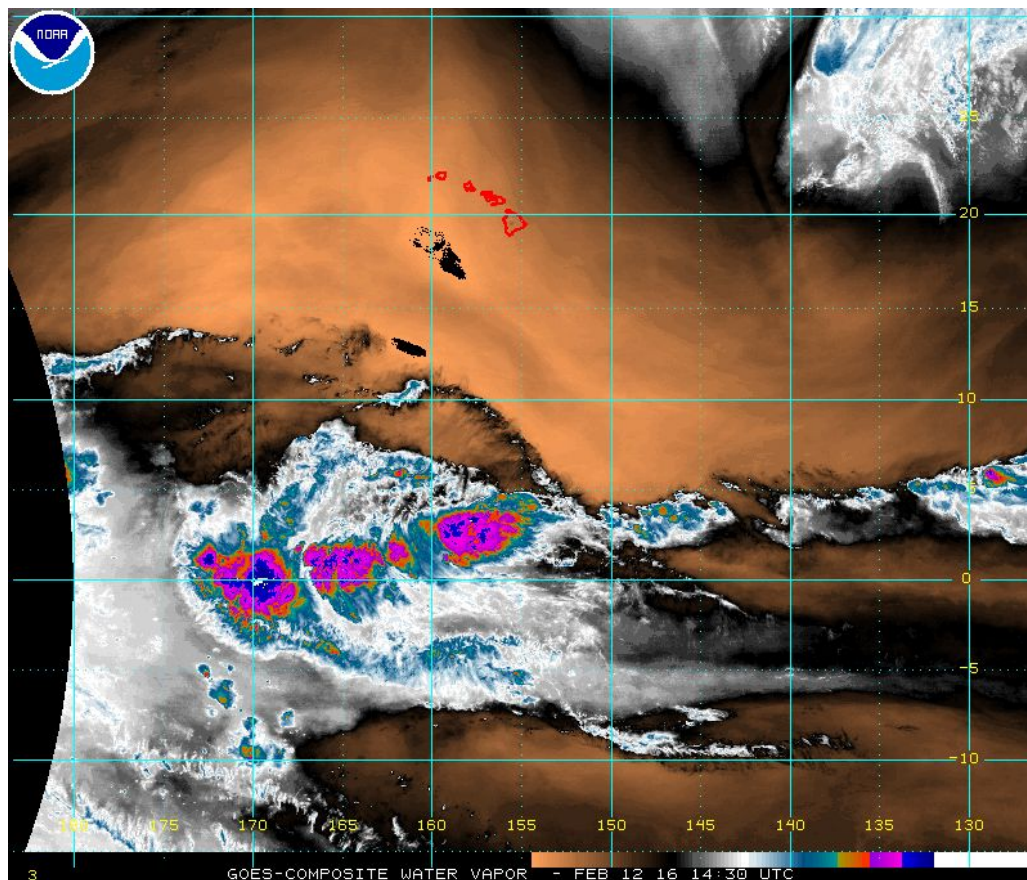
TUE 14:30Z February 9 Enhanced IR Image



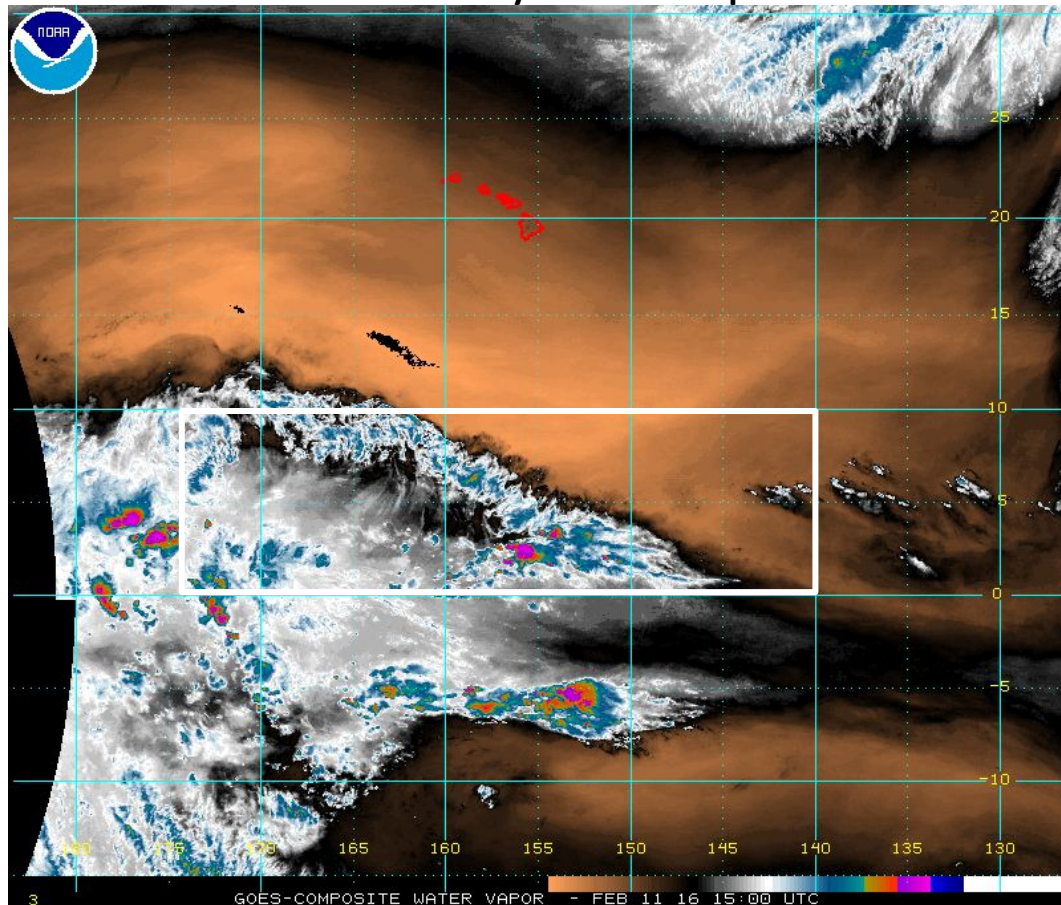
MON 14:30Z February 8 Enhanced IR Image

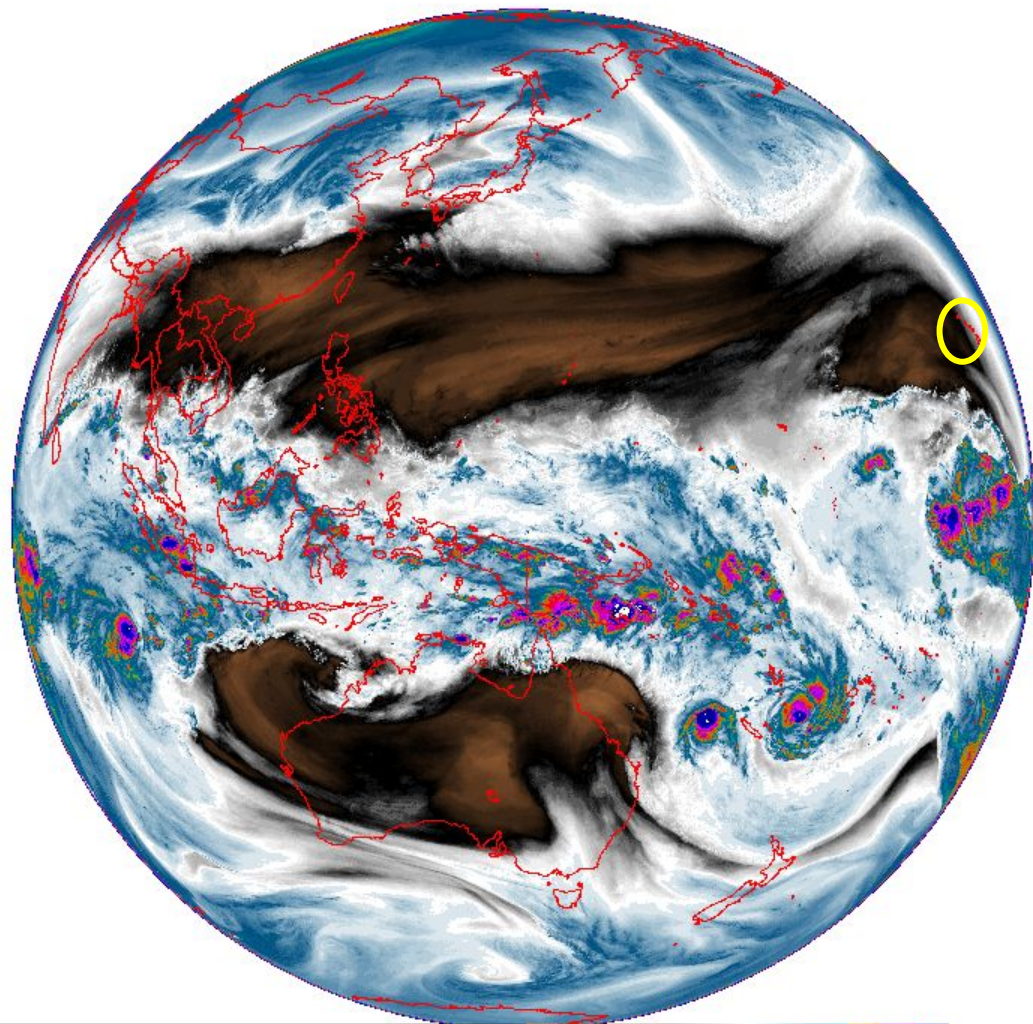


FRI 1430Z February 12 Water Vapor



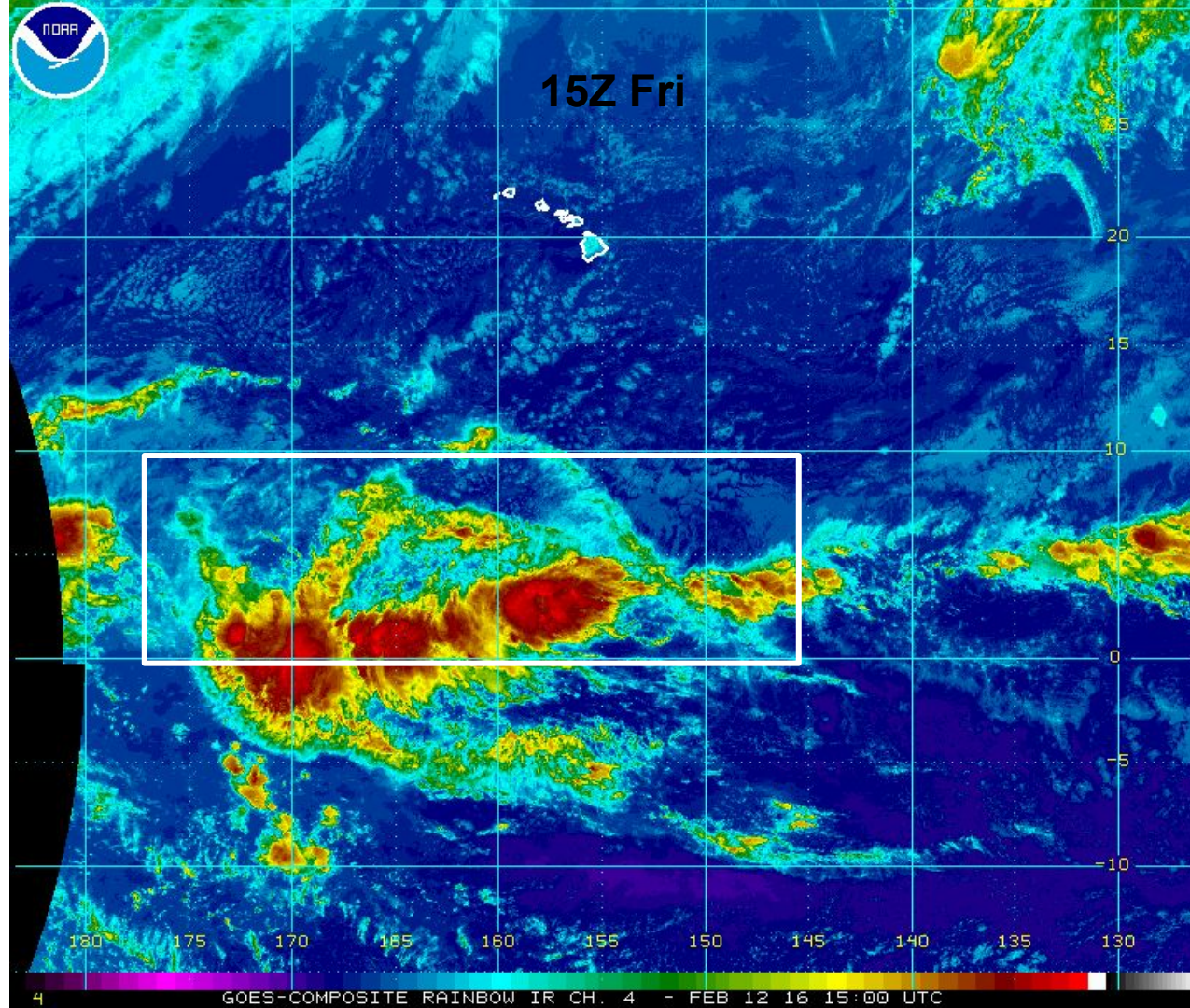
THU 15Z February 11 Water Vapor







15Z Fri

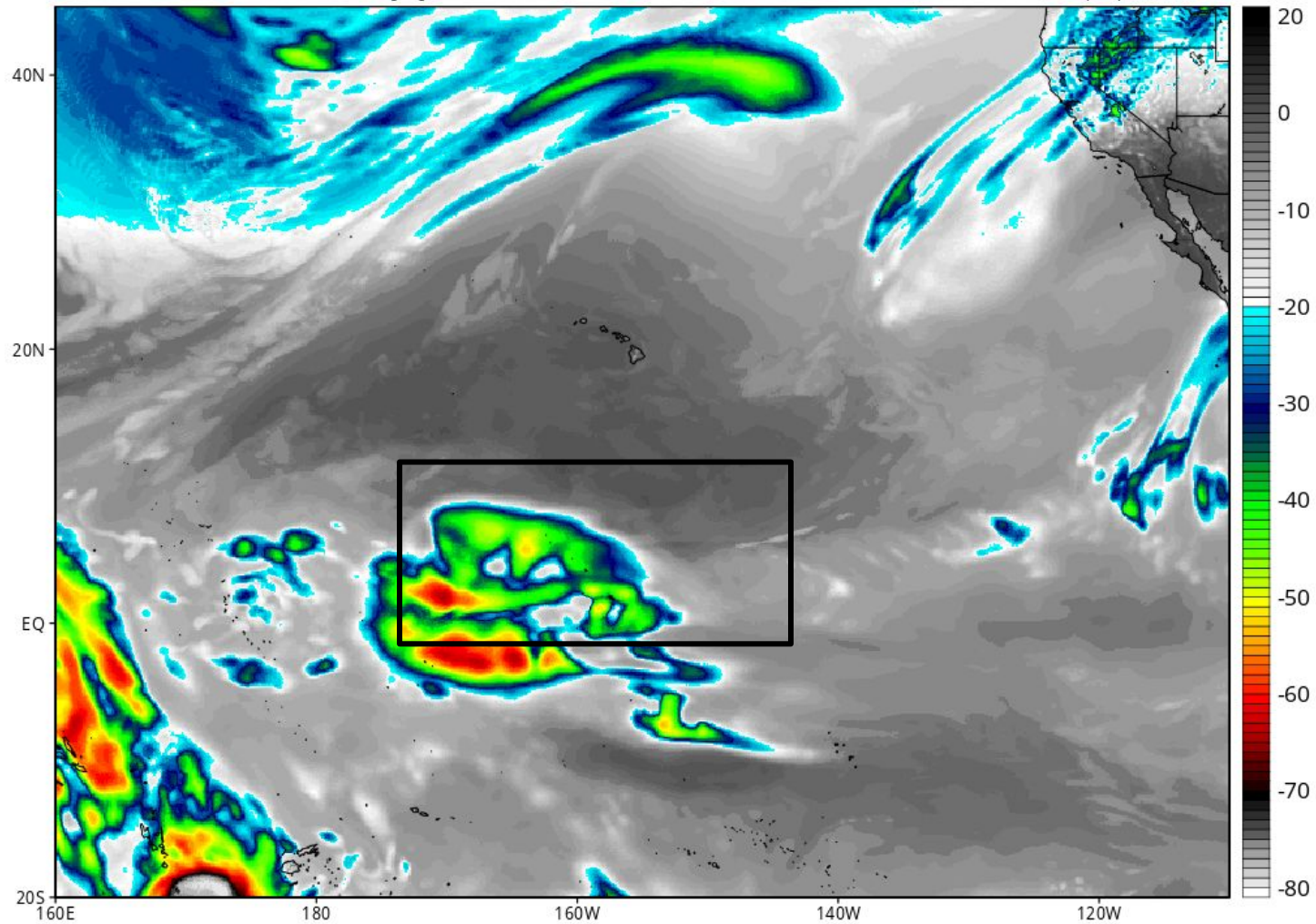


GFS Simulated IR Brightness Temperature (°C)

Init: 12z Feb 12 2016 Forecast Hour: [12] valid at 00z Sat, Feb 13 2016

Latest GFS Valid 00Z Sat

Levi Cowan | tropicaltidbits.com

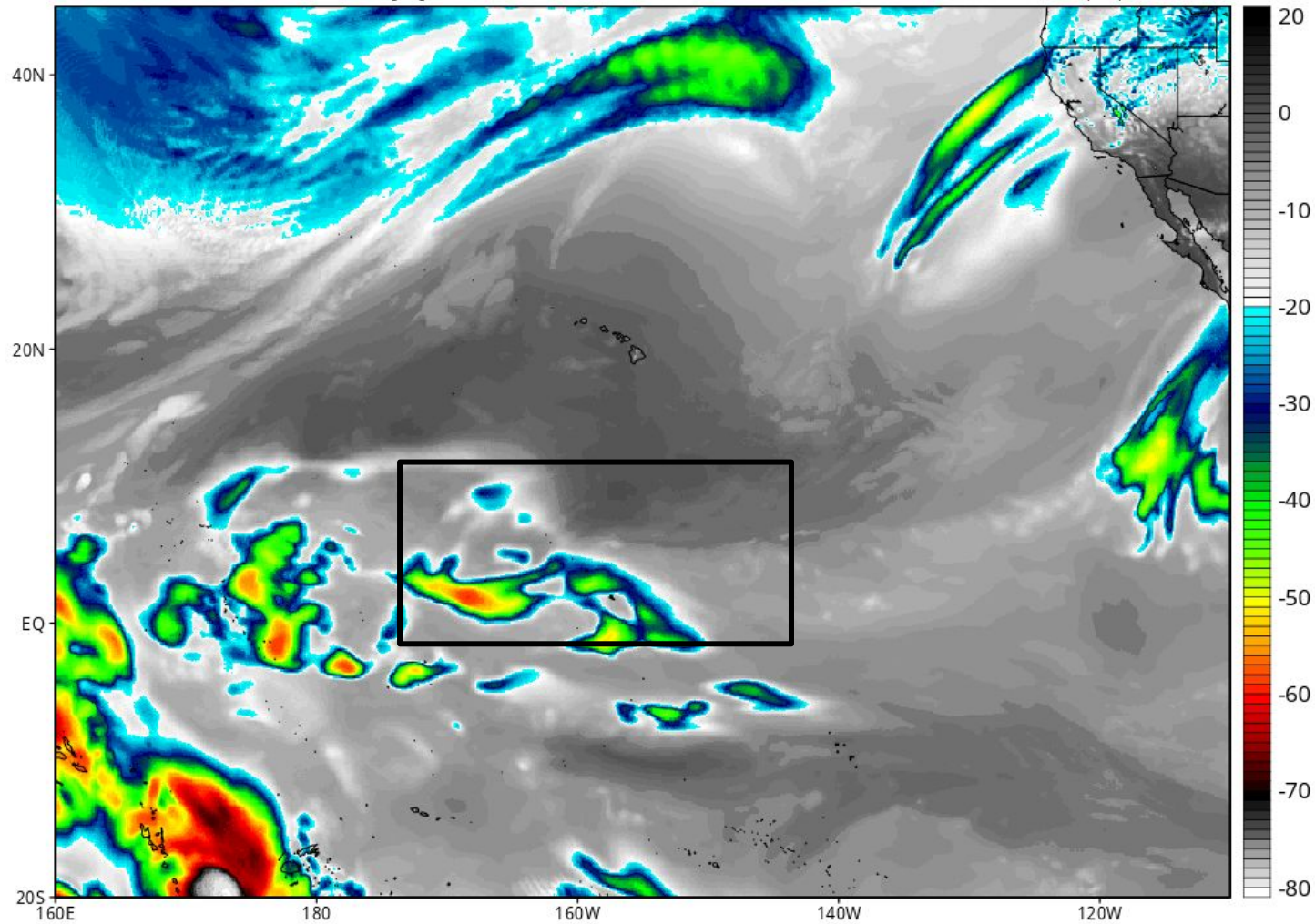


GFS Simulated IR Brightness Temperature (°C)

Prior GFS Valid 00Z Sat

Init: 12z Feb 11 2016 Forecast Hour: [36] valid at 00z Sat, Feb 13 2016

Levi Cowan | tropicaltidbits.com

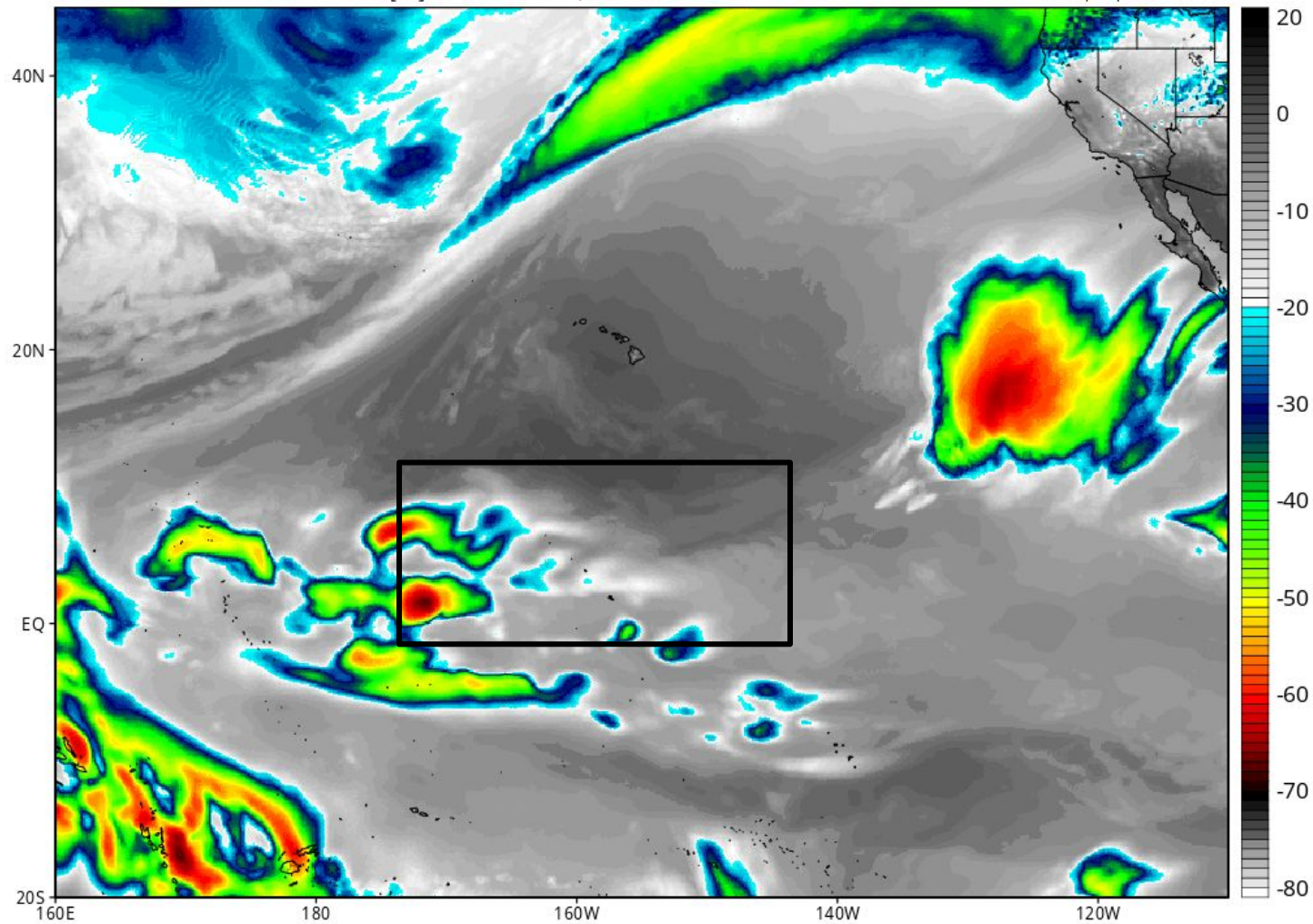


GFS Simulated IR Brightness Temperature (°C)

Init: 12z Feb 12 2016 Forecast Hour: [36] valid at 00z Sun, Feb 14 2016

Latest GFS Valid 00Z SUN

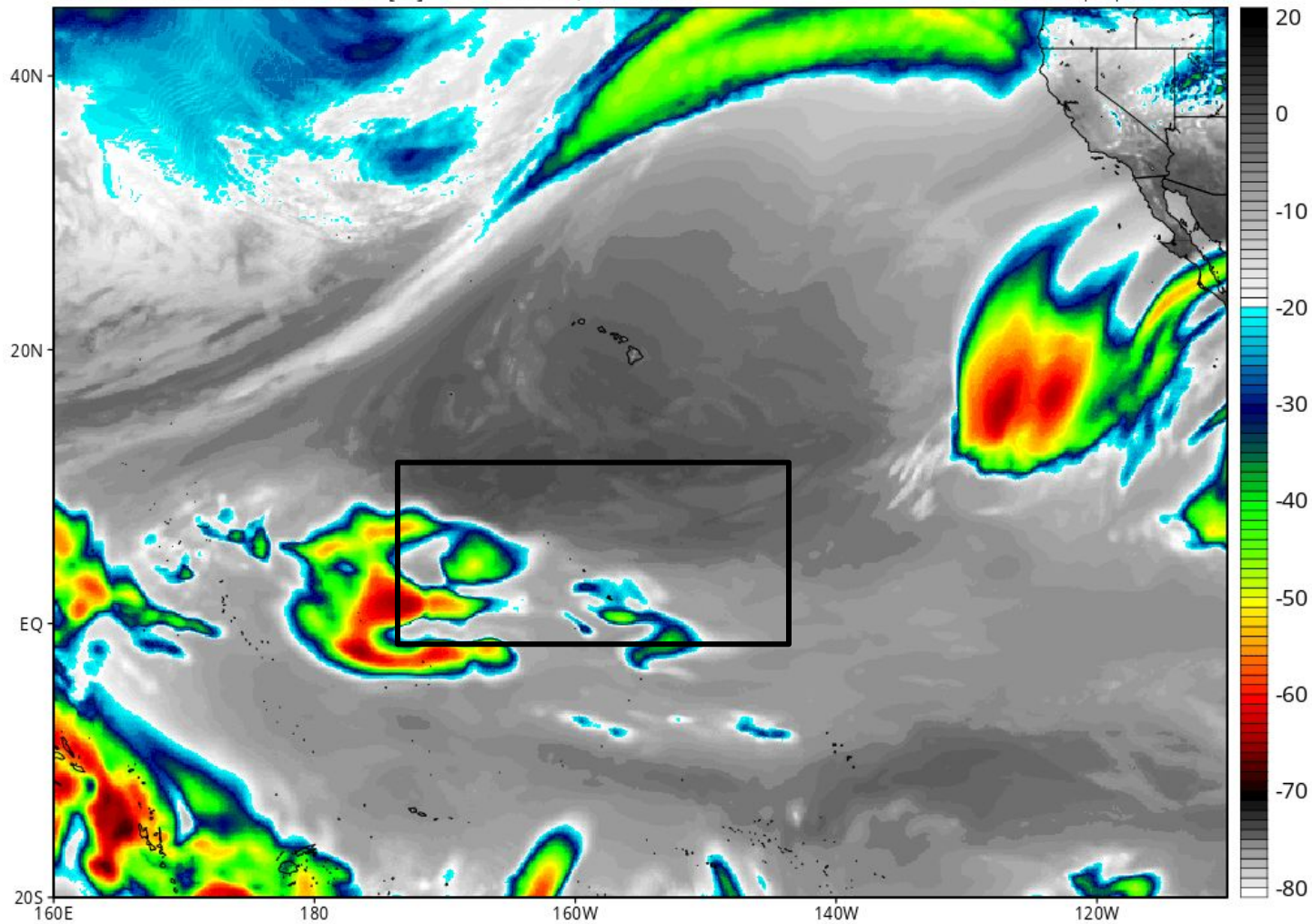
Levi Cowan | tropicaltidbits.com



GFS Simulated IR Brightness Temperature (°C)

Init: 12z Feb 11 2016 Forecast Hour: [60] valid at 00z Sun, Feb 14 2016

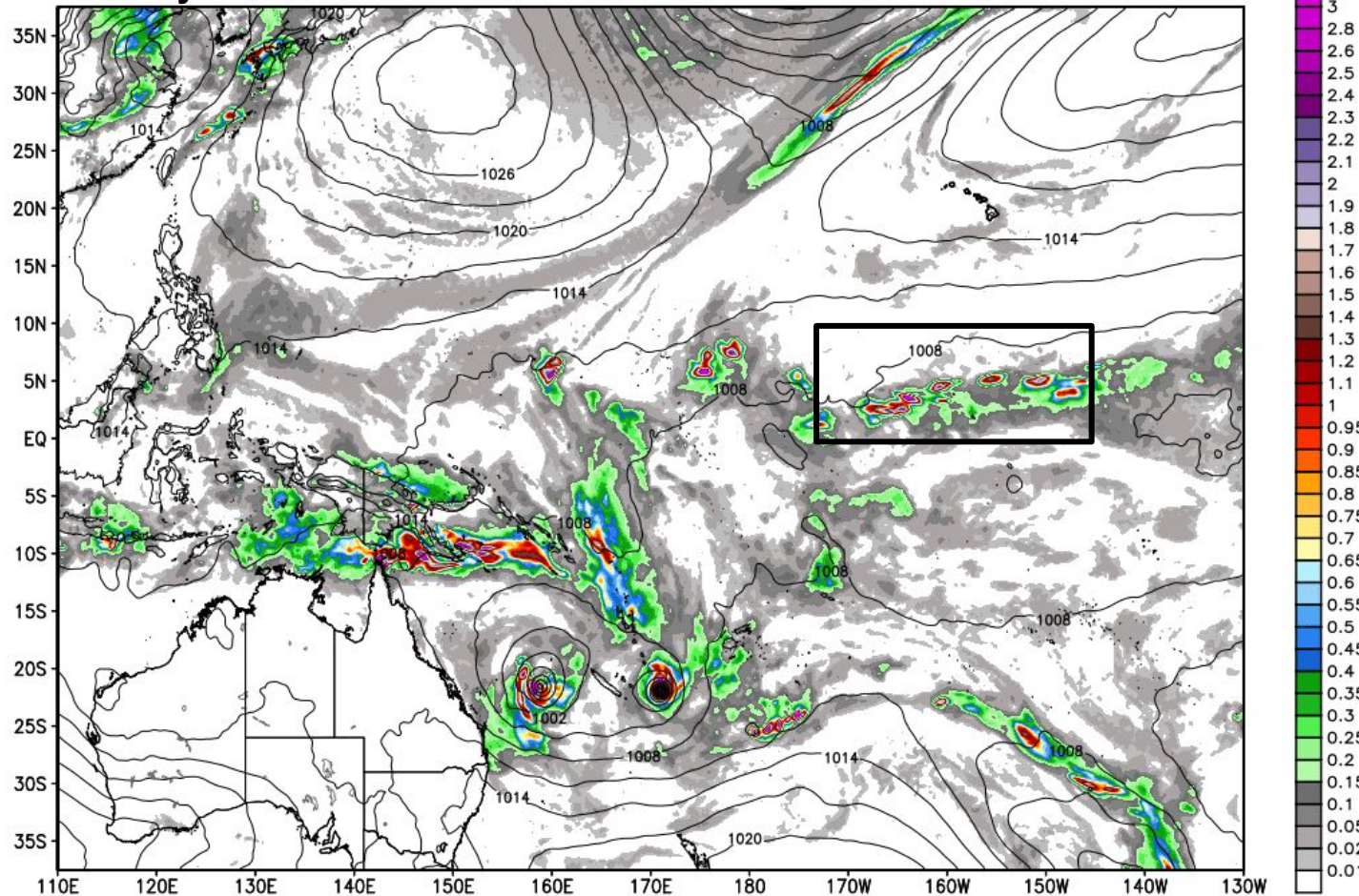
Prior GFS Valid 00Z SUN



ECMWF 6-hourly Precipitation [inches] between 18Z12FEB2016 -- 00Z13FEB2016 & MSLP [hPa]
INIT: 00Z12FEB2016 fx: [024] hr --> Sat 00Z13FEB2016

Courtesy WeatherBell

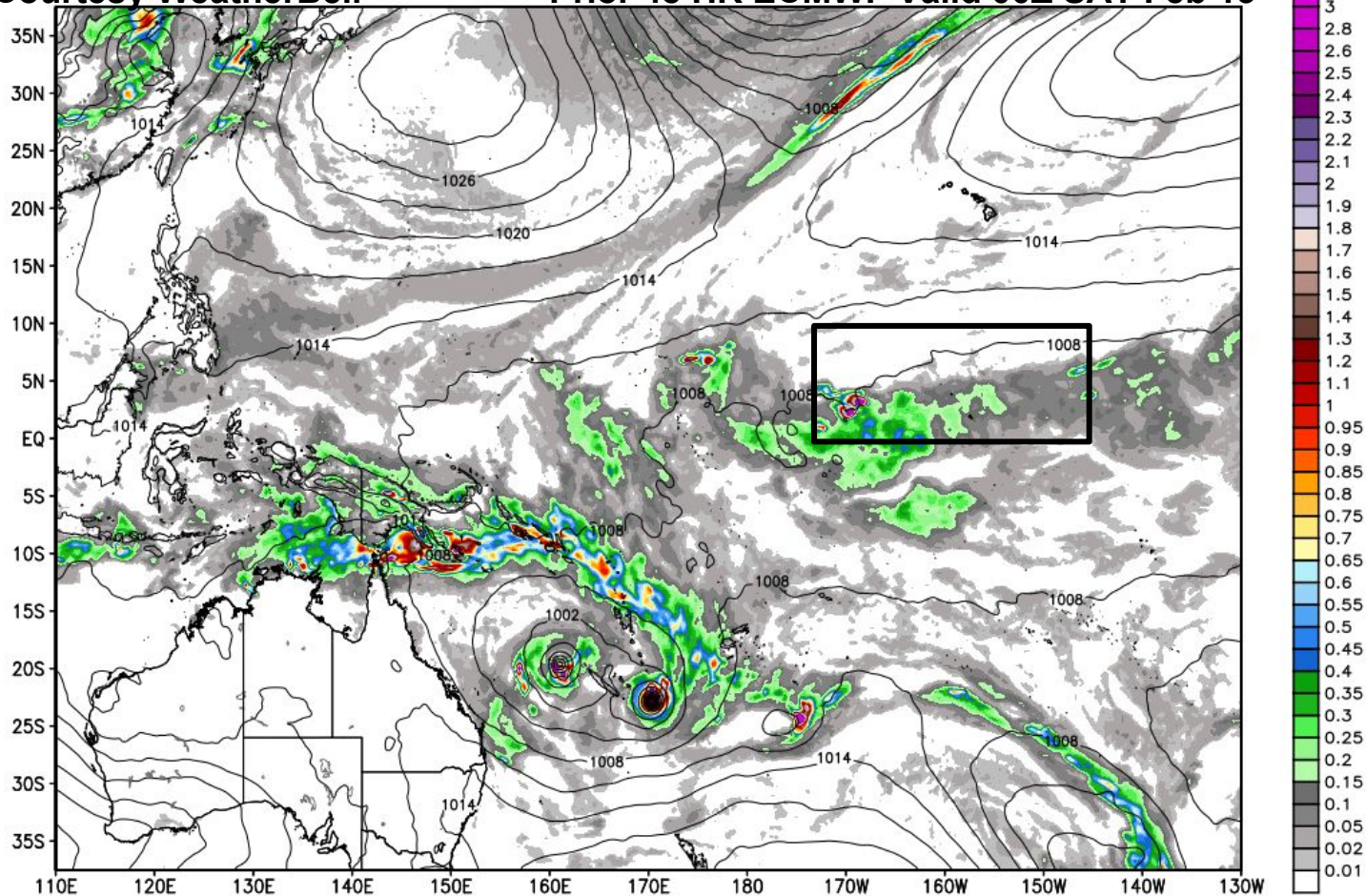
Latest 24 HR ECMWF Valid 00Z SAT Feb 13



ECMWF 6-hourly Precipitation [inches] between 18Z12FEB2016 -- 00Z13FEB2016 & MSLP [hPa]
INIT: 00Z11FEB2016 fx: [048] hr --> Sat 00Z13FEB2016

Courtesy WeatherBell

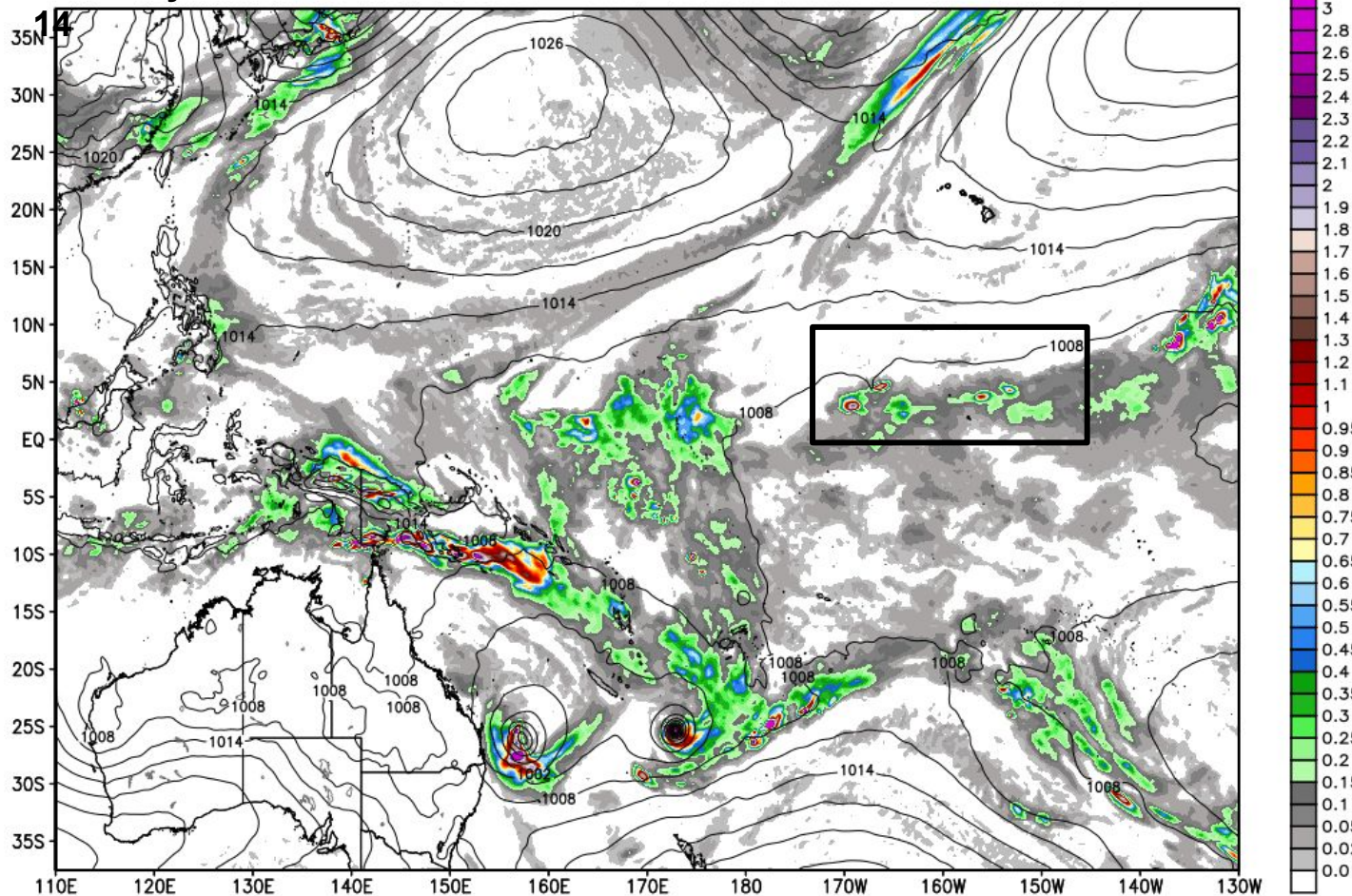
Prior 48 HR ECMWF Valid 00Z SAT Feb 13



ECMWF 6-hourly Precipitation [inches] between 18Z13FEB2016 -- 00Z14FEB2016 & MSLP [hPa]
INIT: 00Z12FEB2016 fr: [048] hr --> Sun 00Z14FEB2016

Courtesy WeatherBell

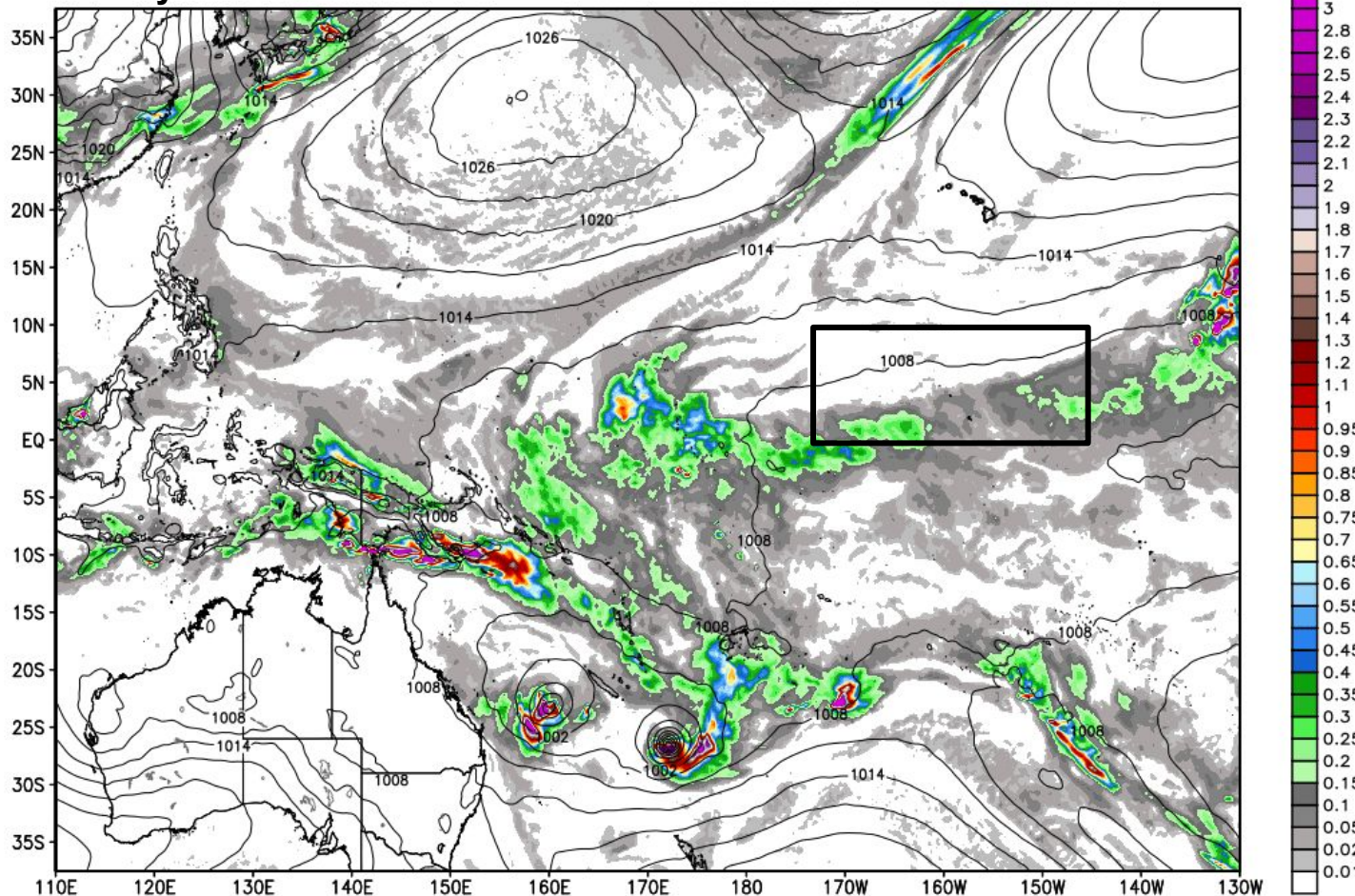
Latest 48 HR ECMWF Valid 00Z SUN Feb



ECMWF 6-hourly Precipitation [inches] between 18Z13FEB2016 -- 00Z14FEB2016 & MSLP [hPa]
INJT: 00Z11FEB2016 fx: [072] hr --> Sun 00Z14FEB2016

Courtesy WeatherBell

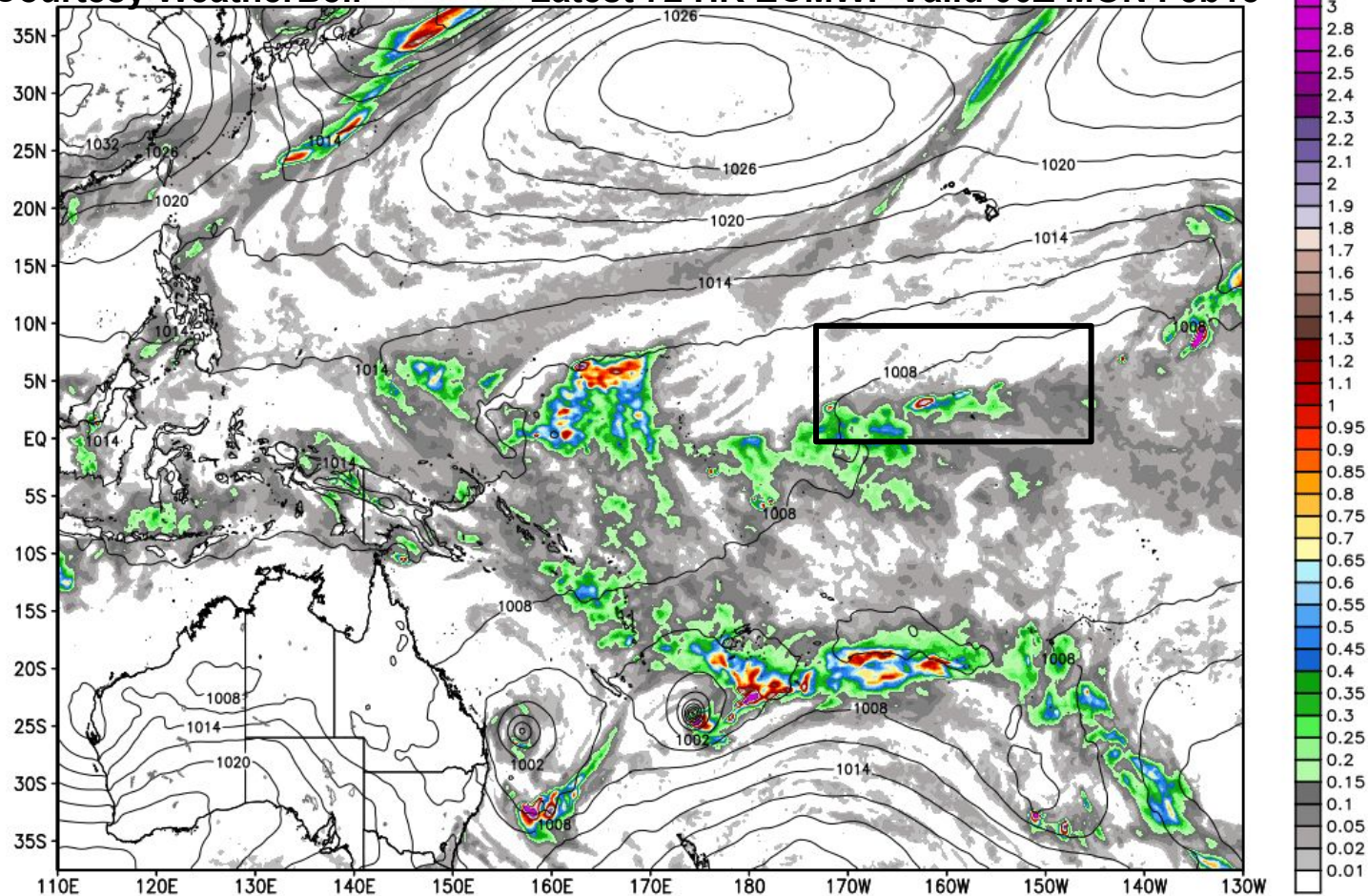
Prior 72 HR ECMWF Valid 00Z SUN Feb 14



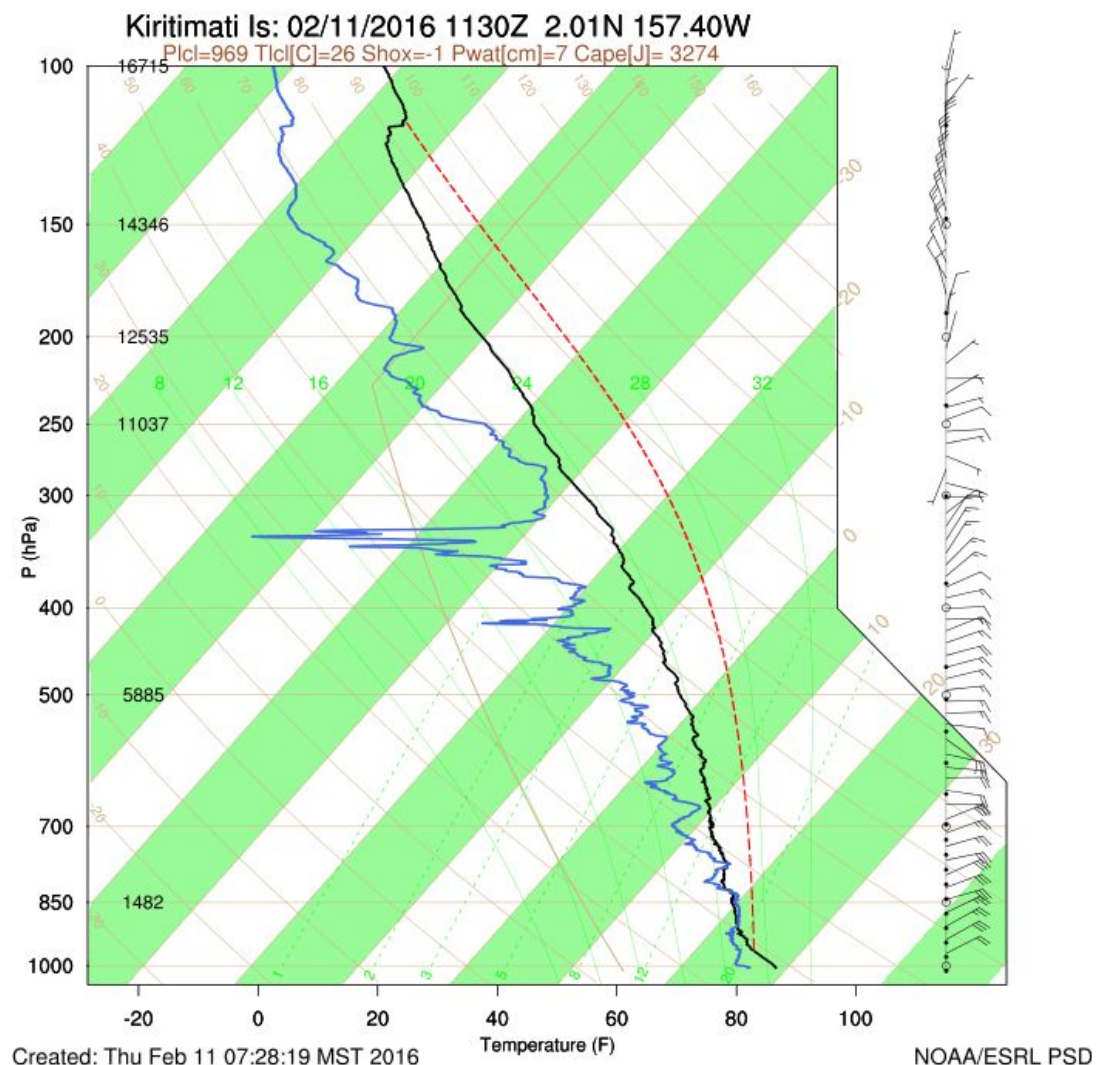
ECMWF 6-hourly Precipitation [inches] between 18Z14FEB2016 -- 00Z15FEB2016 & MSLP [hPa]
INIT: 00Z12FEB2016 fx: [072] hr --> Mon 00Z15FEB2016

Courtesy WeatherBell

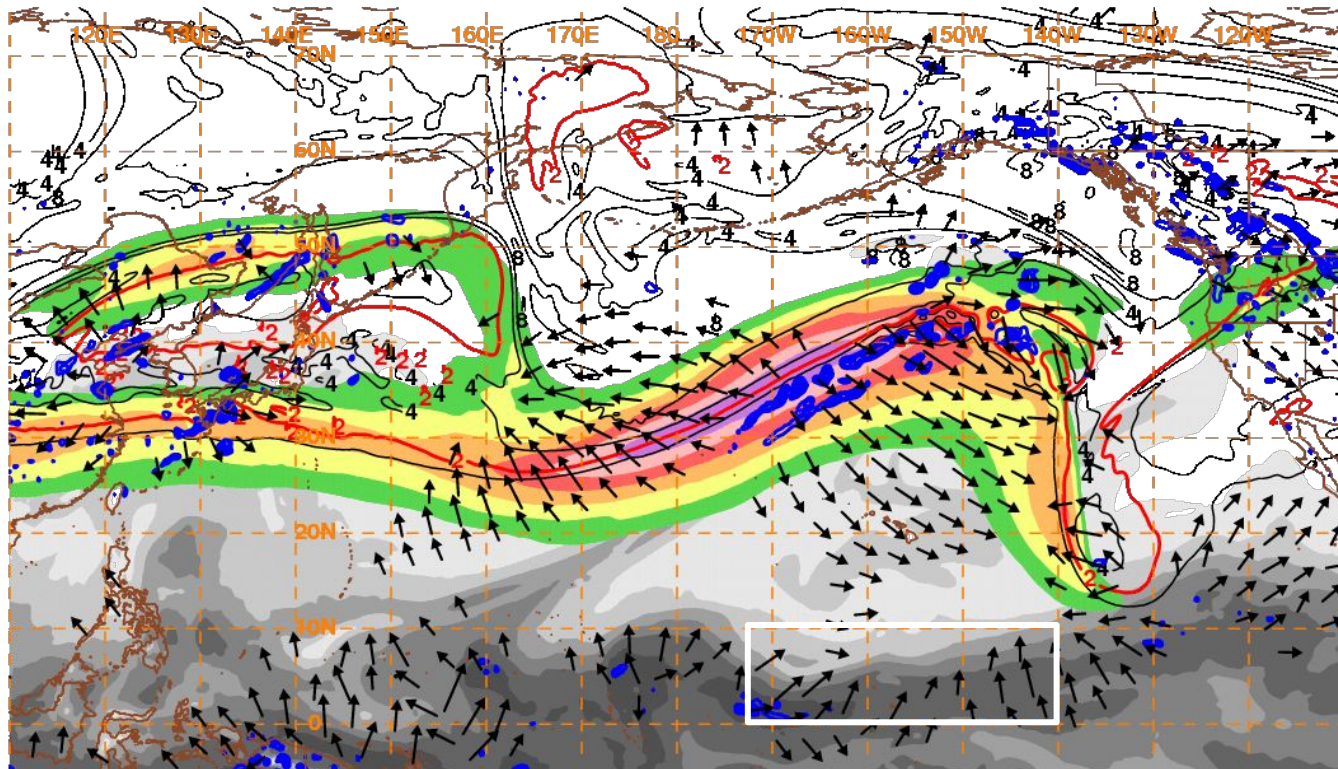
Latest 72 HR ECMWF Valid 00Z MON Feb15



Kiritimati Sonde: 1130Z
THU Feb 11



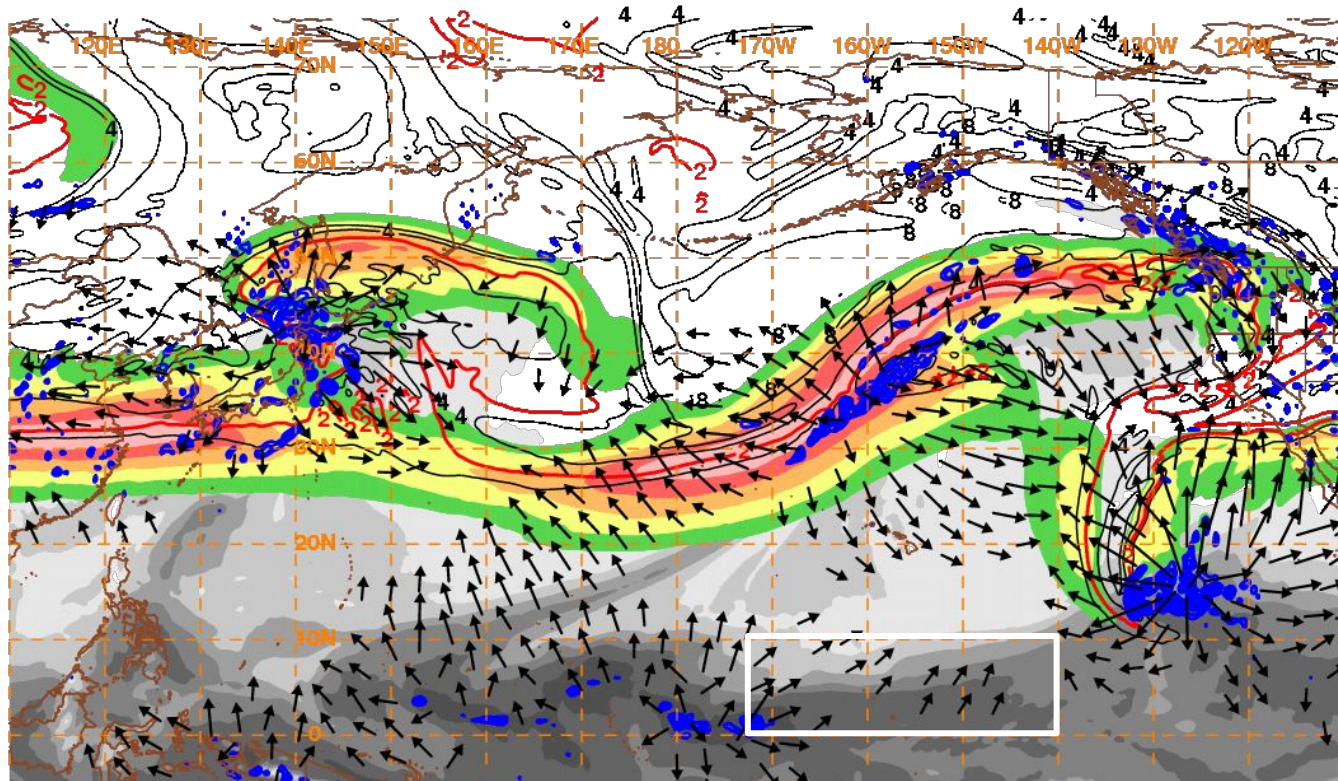
GFS 18HR FCST Valid 00Z SAT Feb 13: 200 mb DIV Wind Vectors



10 m/s → 160213/0000V018 PW, 250 hPa Isotachs, PV, Irr. Wind, 500 hPa Upward Vert. Vel



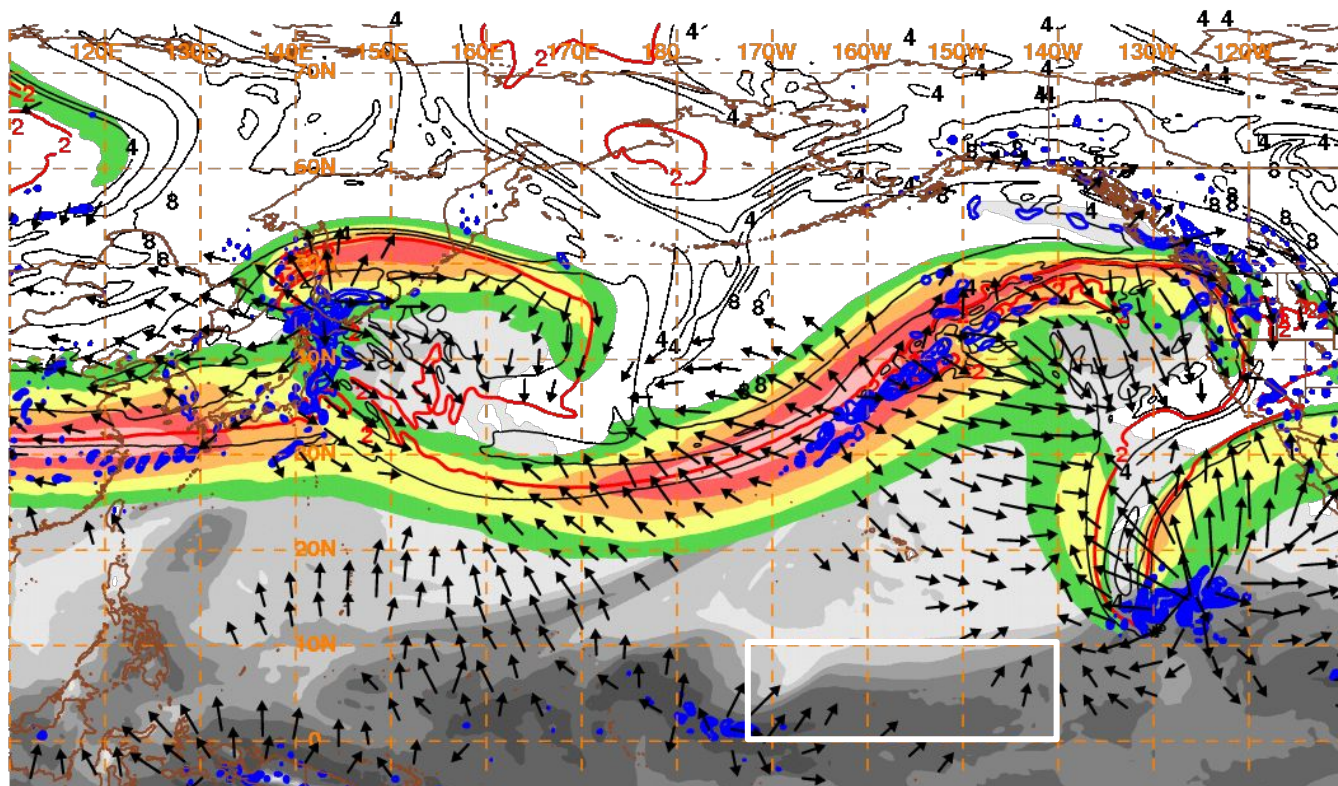
GFS 42HR FCST Valid 00Z SUN Feb 14: 200 mb DIV Wind Vectors



10 m/s → 160214/0000V042 PW, 250 hPa Isotachs, PV, Irr. Wind, 500 hPa Upward Vert. Vel



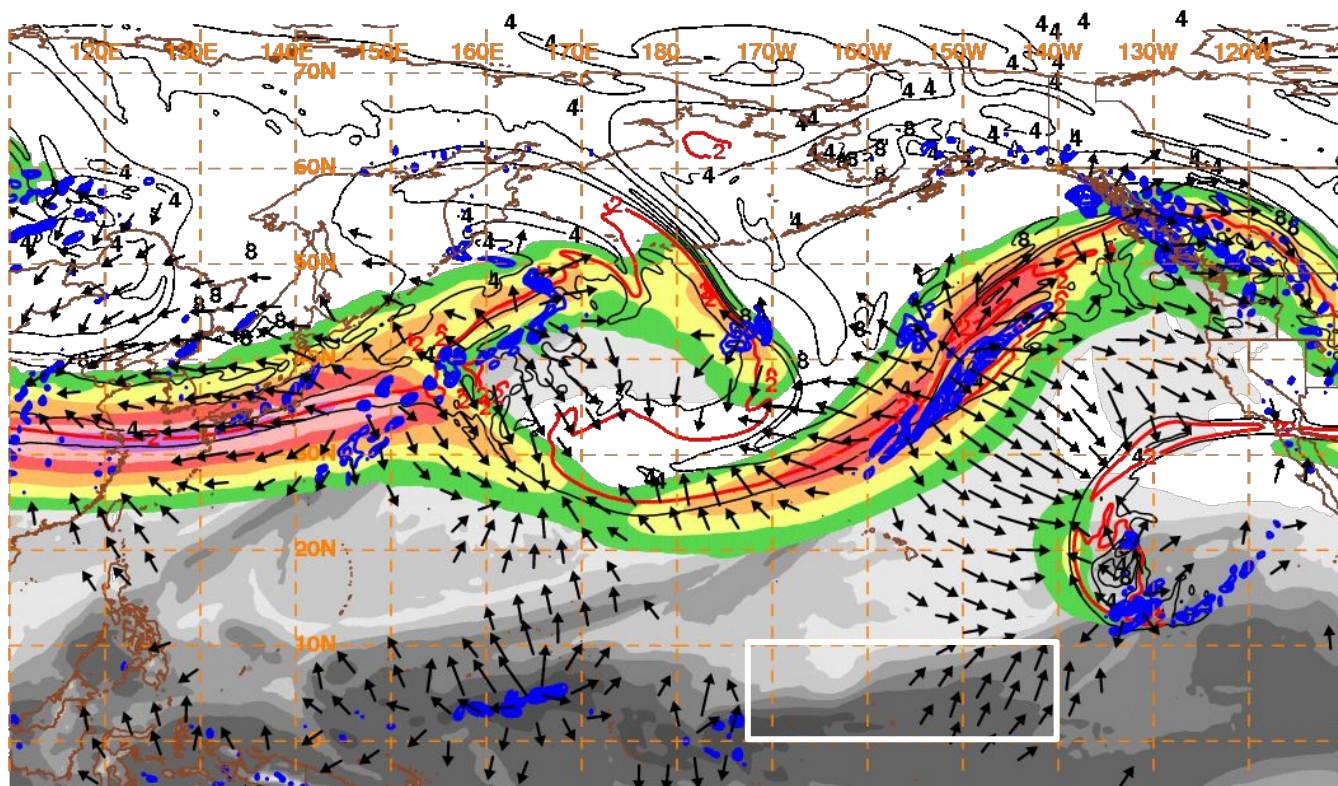
GFS 66HR FCST Valid 00Z SUN Feb 14: 200 mb DIV Wind Vectors



10 m/s → 160214/0000V066 PW, 250 hPa Isotachs, PV, Irr. Wind, 500 hPa Upward Vert. Vel



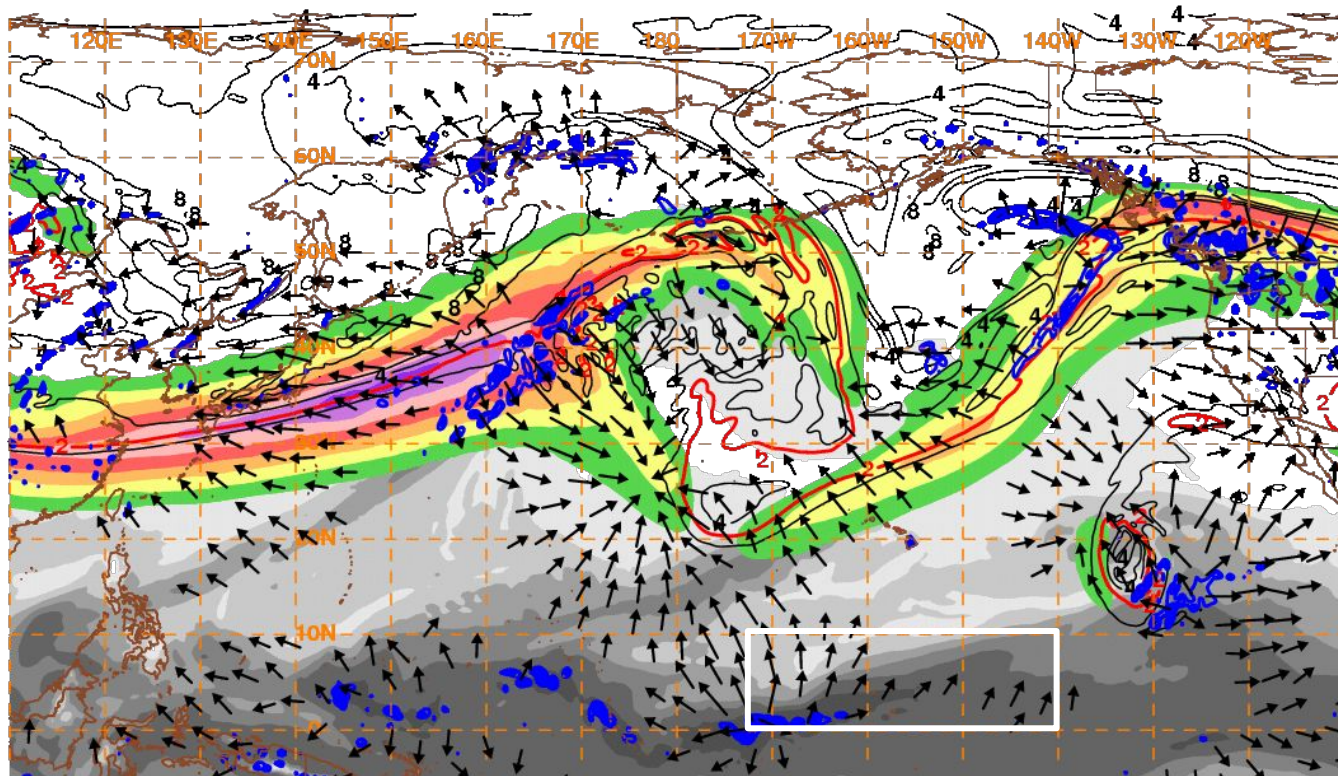
GFS 66HR FCST Valid 00Z MON Feb 15: 200 mb DIV Wind Vectors



10 m/s → 160215/0000V066 PW, 250 hPa Isotachs, PV, Irr. Wind, 500 hPa Upward Vert. Vel



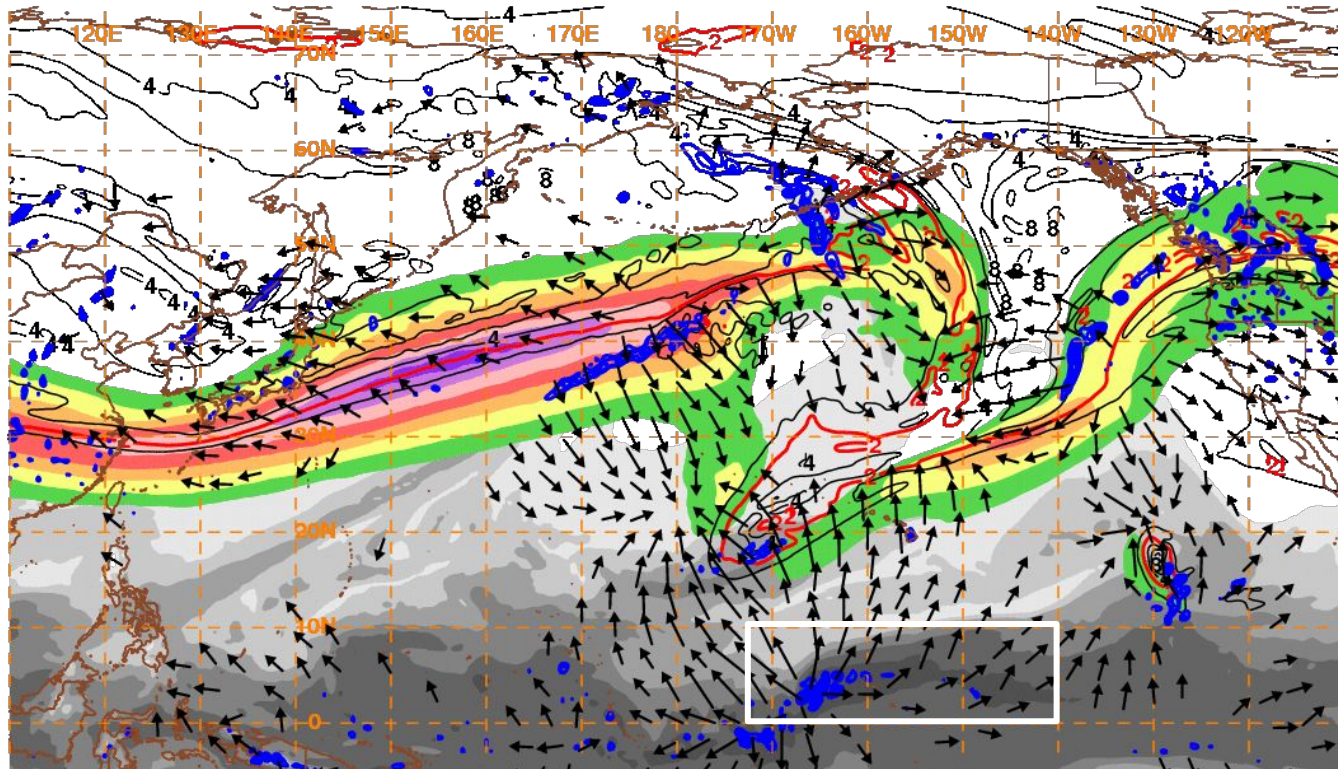
GFS 90HR FCST Valid 00Z TUE Feb 16: 200 mb DIV Wind Vectors



10 m/s → 160216/0000V090 PW, 250 hPa Isotachs, PV, Irr. Wind, 500 hPa Upward Vert. Vel



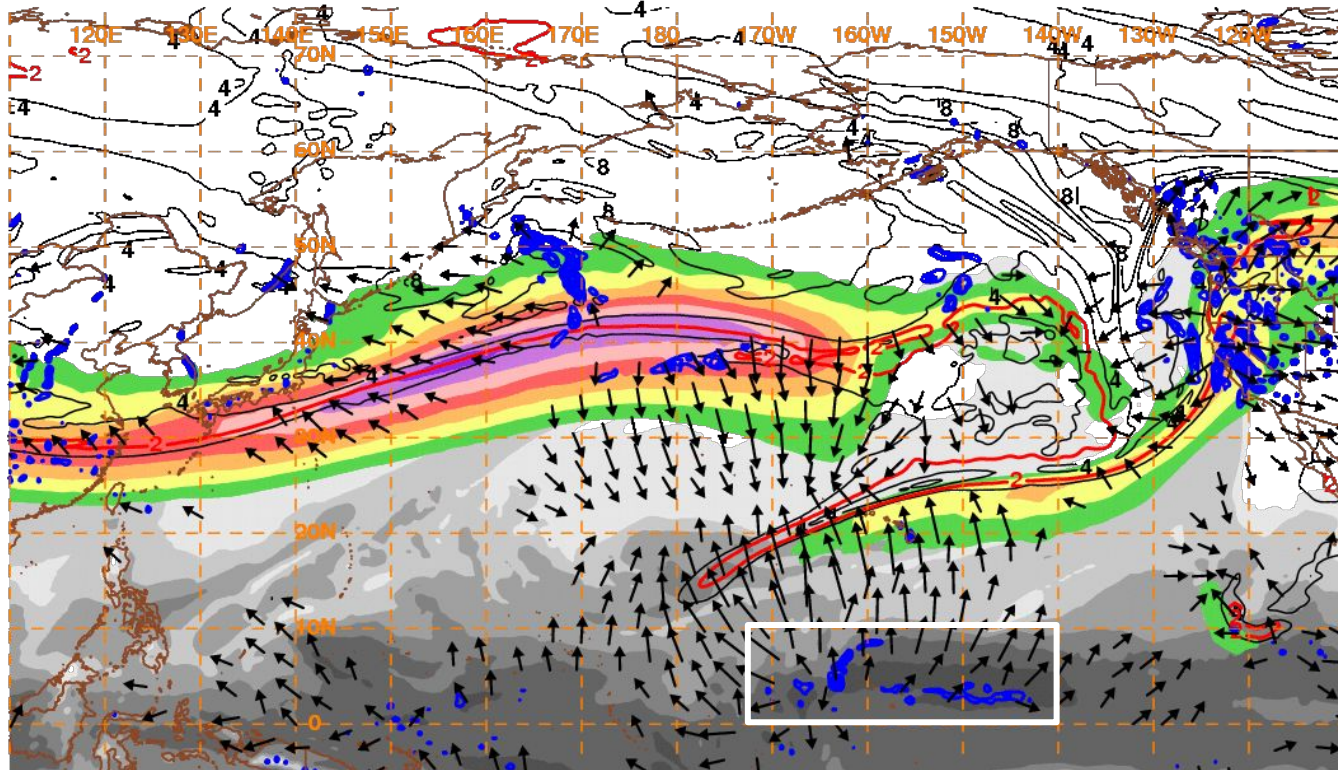
GFS 114HR FCST Valid 00Z WED Feb 17: 200 mb DIV Wind Vectors



10 m/s → 160217/0000V114 PW, 250 hPa Isotachs, PV, Irr. Wind, 500 hPa Upward Vert. Vel



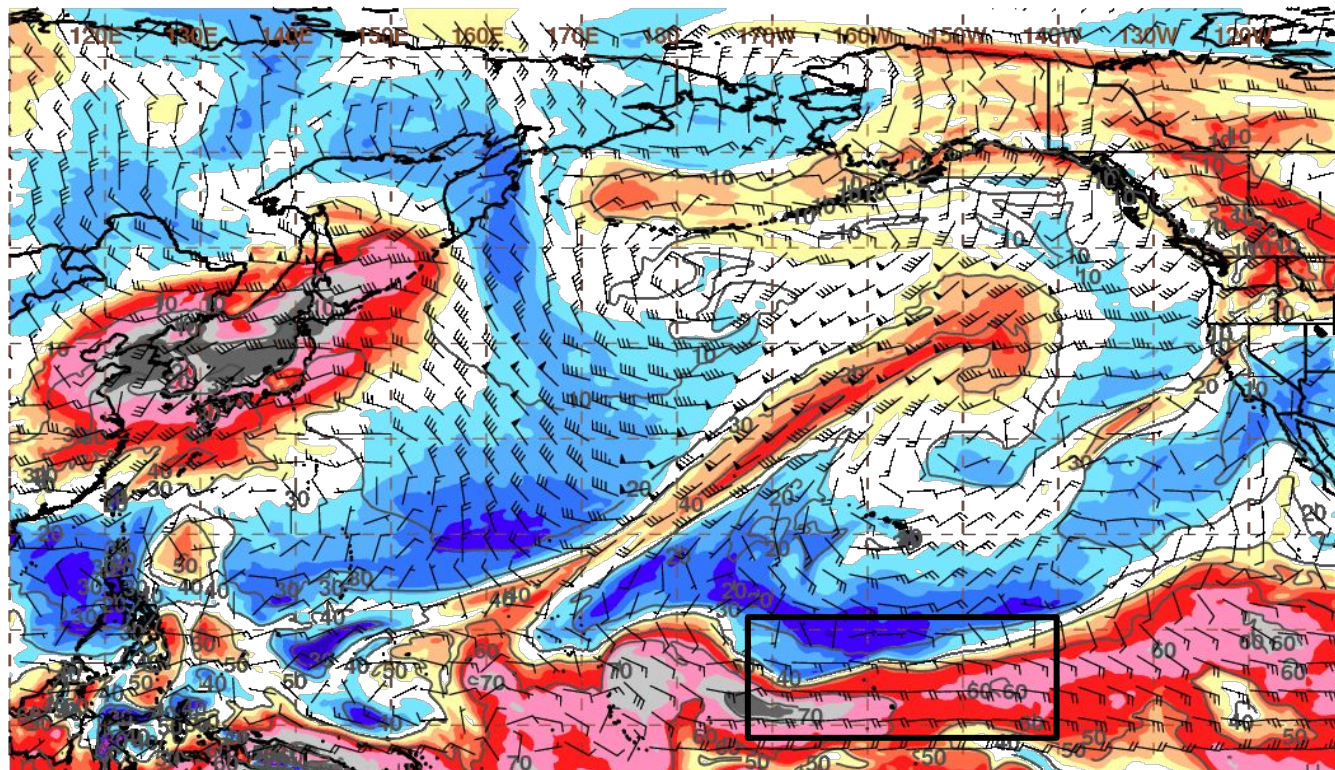
GFS 138HR FCST Valid 00Z THU Feb 18: 200 mb DIV Wind Vectors



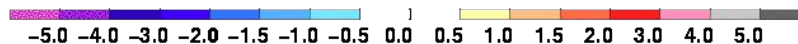
10 m/s → **160218/0000V138 PW, 250 hPa Isotachs, PV, Irr. Wind, 500 hPa Upward Vert. Vel**



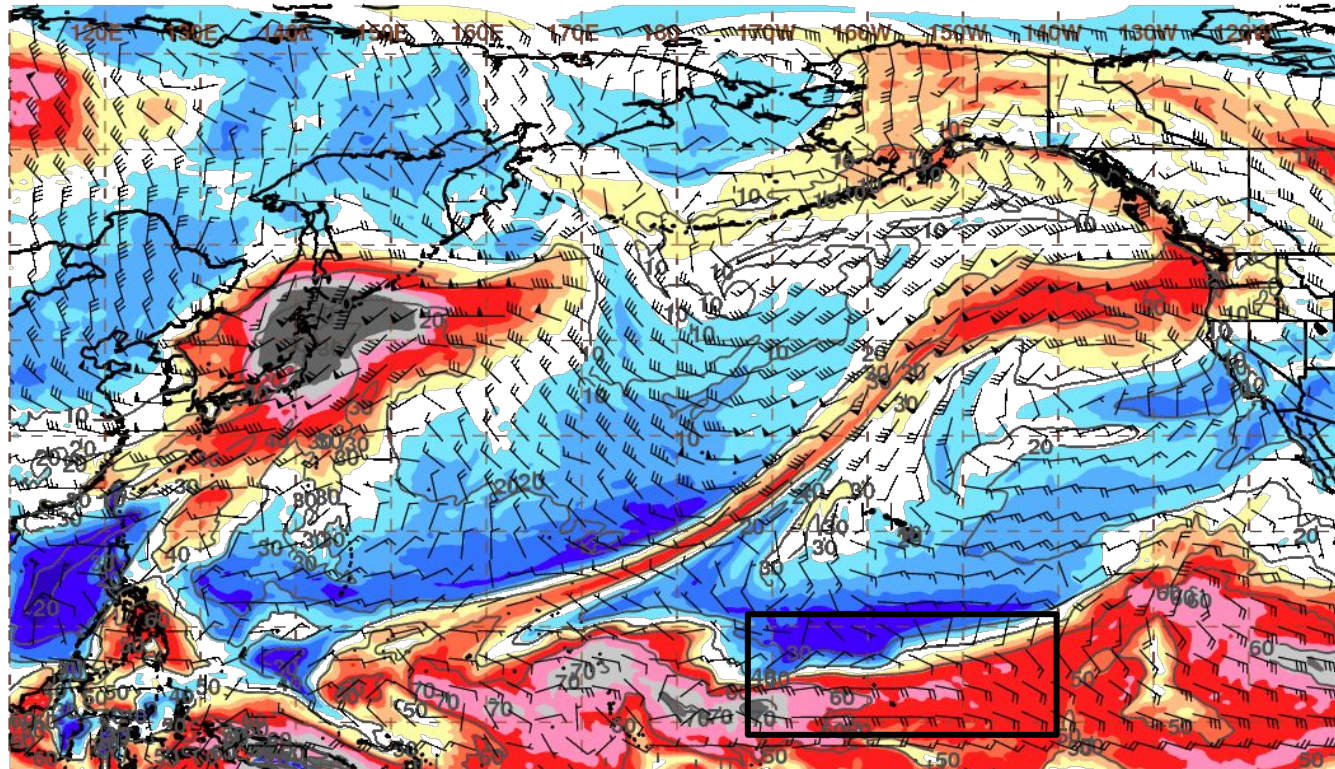
Standardized PW/700 Wind 00Z Sat Feb 13



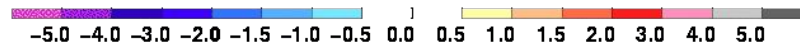
160213/0000F018 Std. Anom of PW; 700 hPa Wind



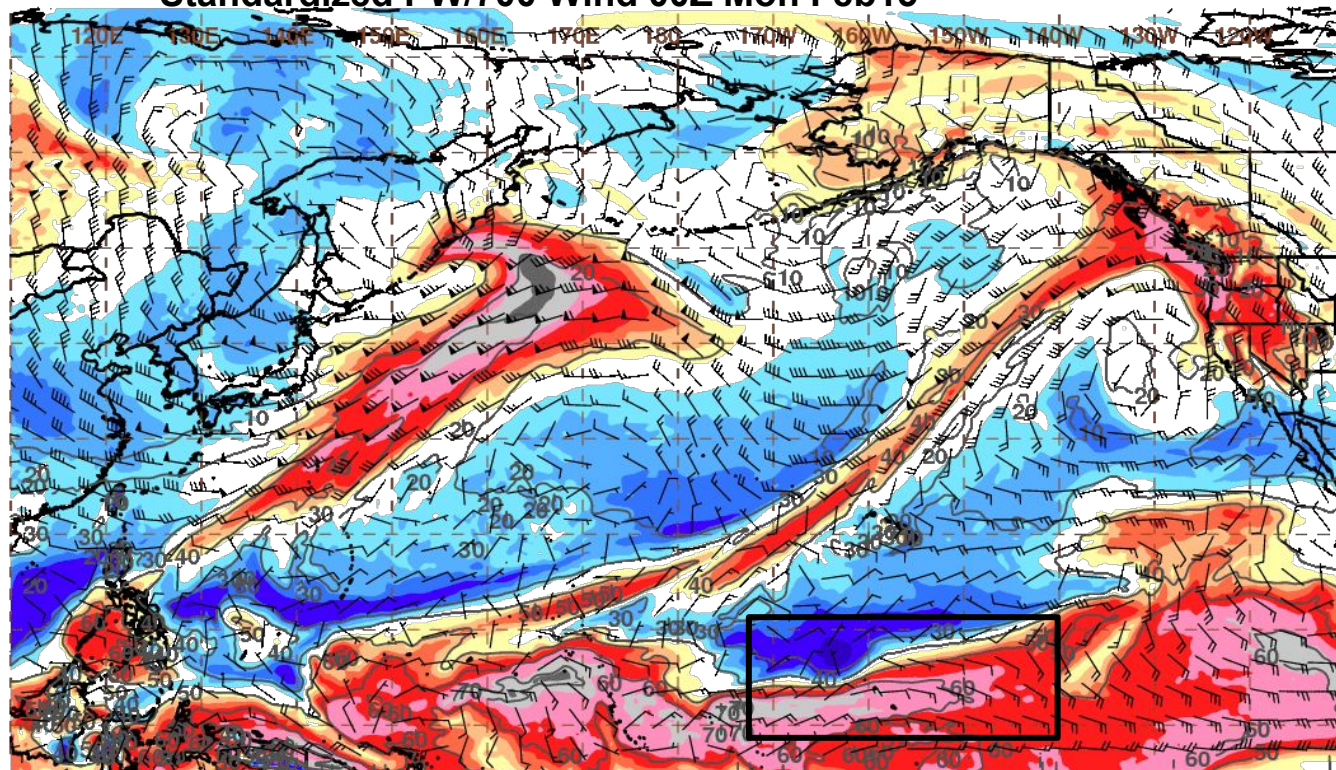
Standardized PW/700 Wind 00Z Sun Feb 14



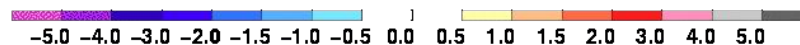
160214/0000F042 Std. Anom of PW; 700 hPa Wind



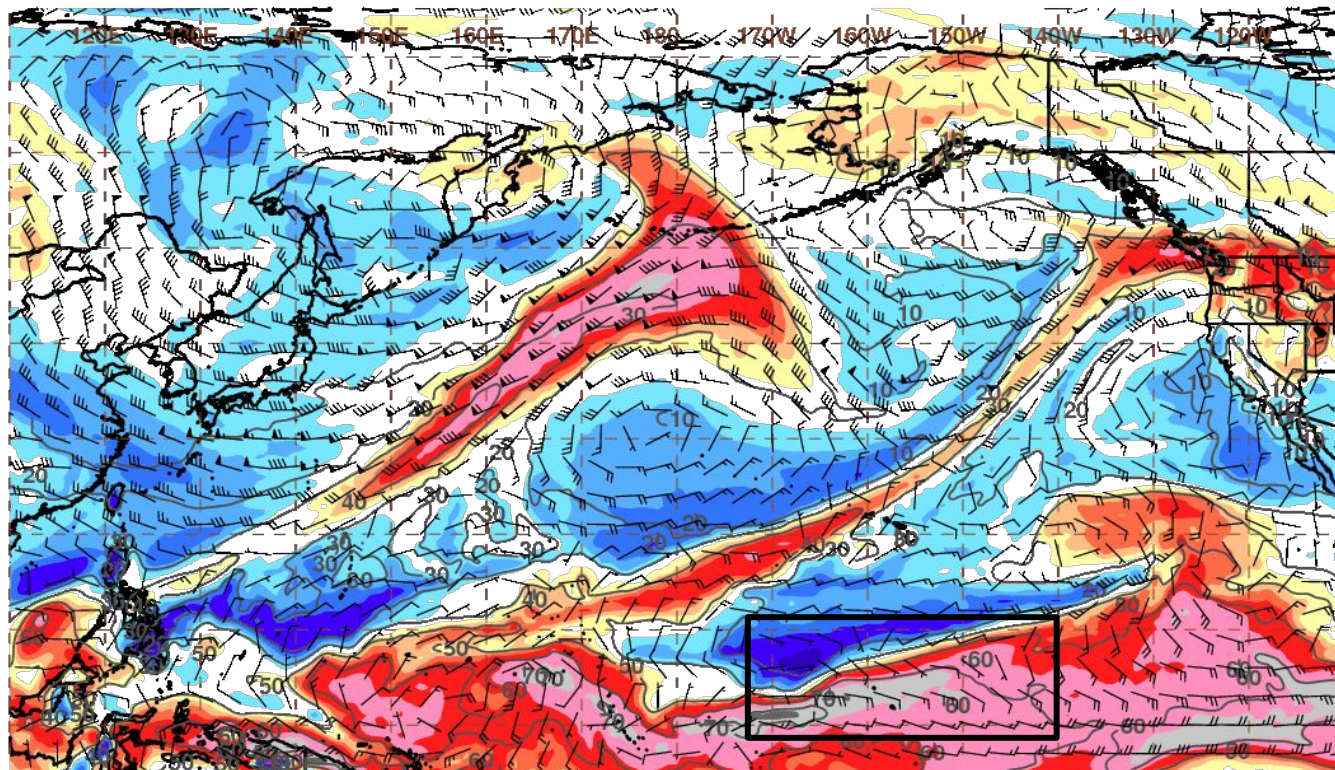
Standardized PW/700 Wind 00Z Mon Feb15



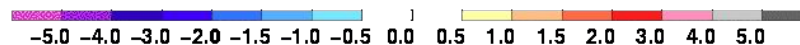
160215/0000F066 Std. Anom of PW; 700 hPa Wind



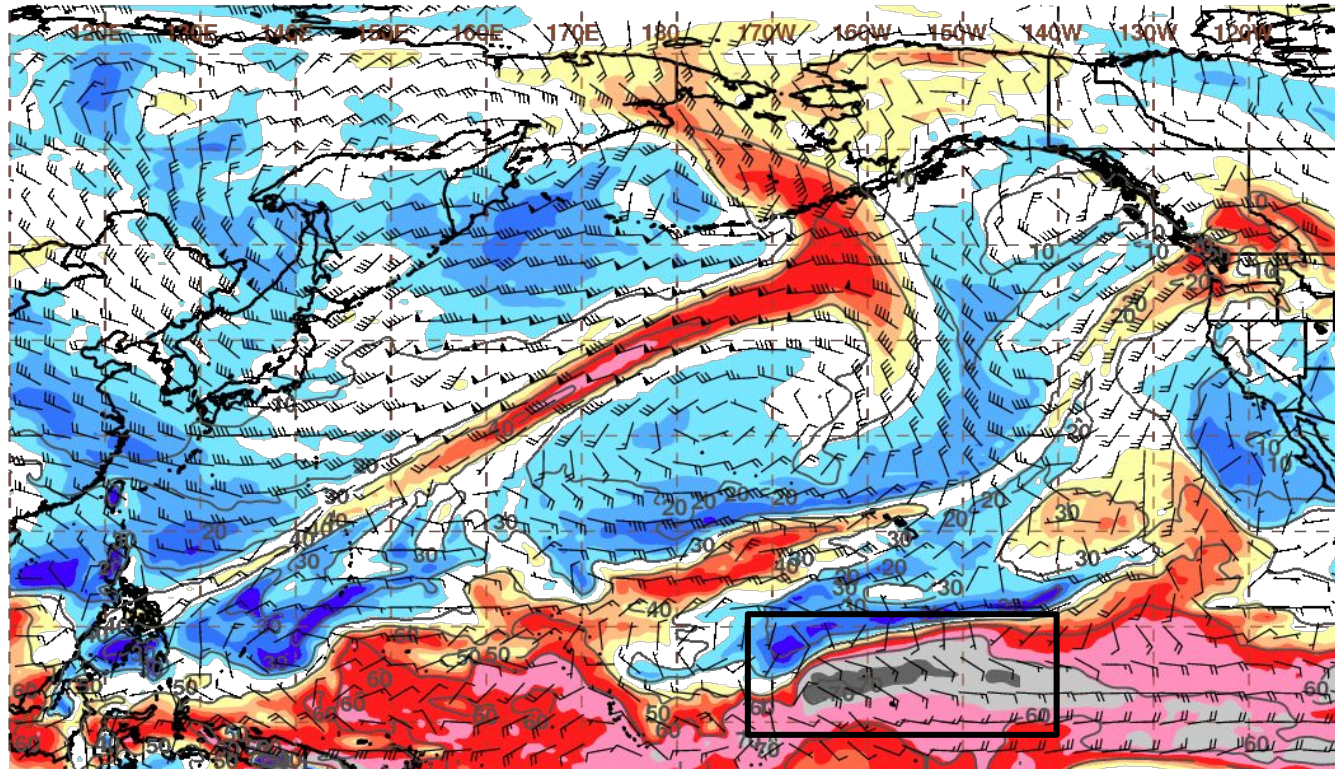
Standardized PW/700 Wind 00Z TUE Feb 16



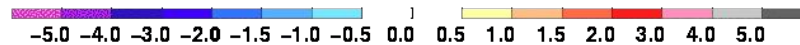
160216/0000F090 Std. Anom of PW; 700 hPa Wind



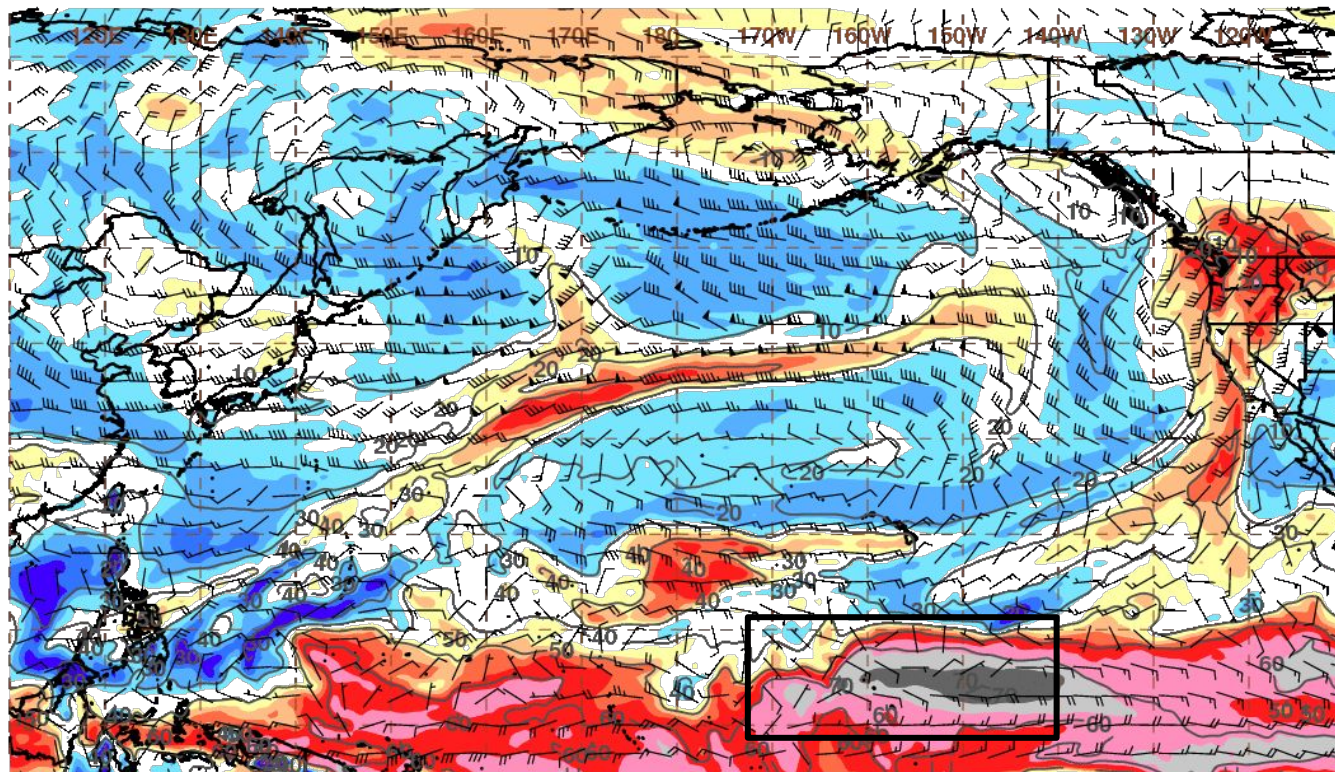
Standardized PW/700 Wind 00Z WED Feb 17



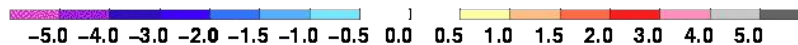
160217/0000F114 Std. Anom of PW; 700 hPa Wind



Standardized PW/700 Wind 00Z THU Feb 18

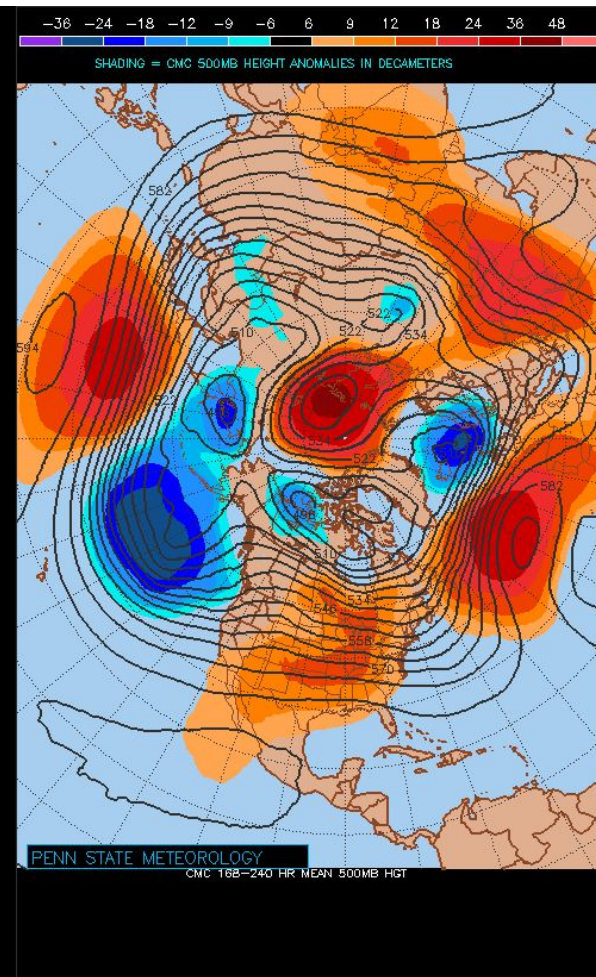
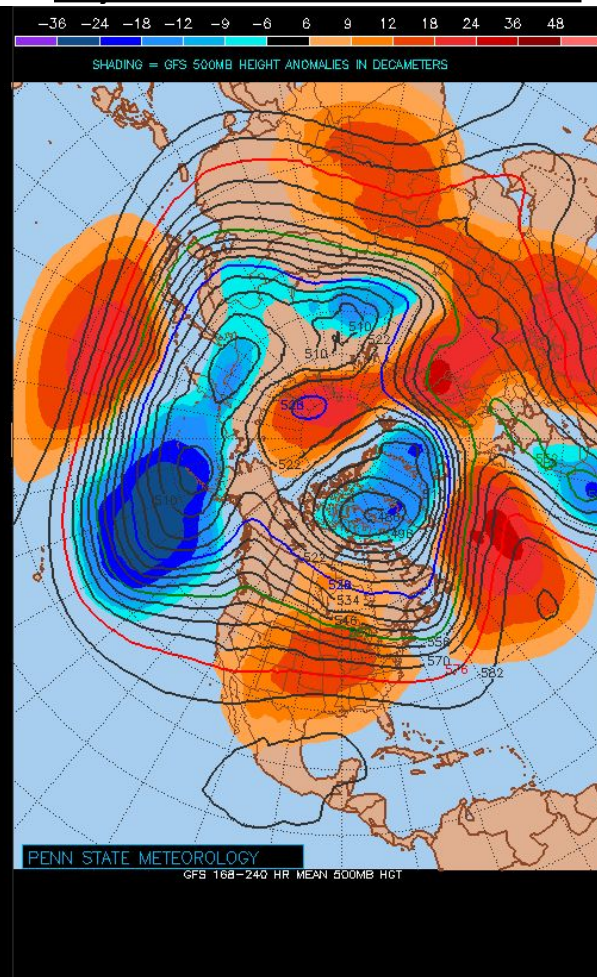
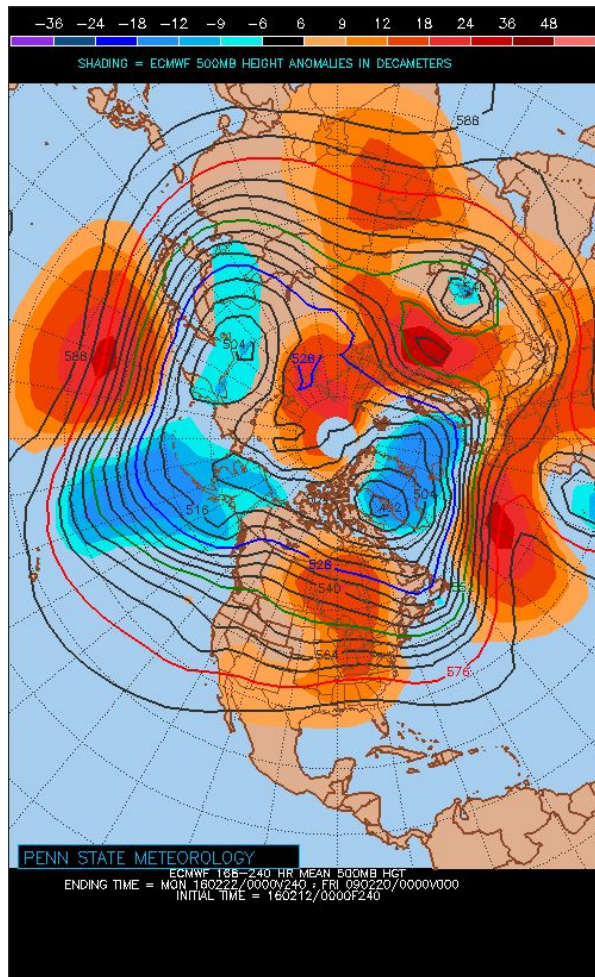


160218/0000F138 Std. Anom of PW; 700 hPa Wind

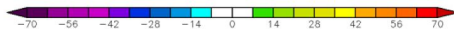
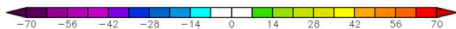
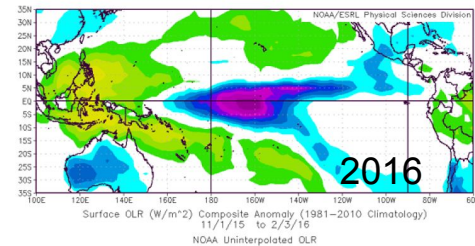
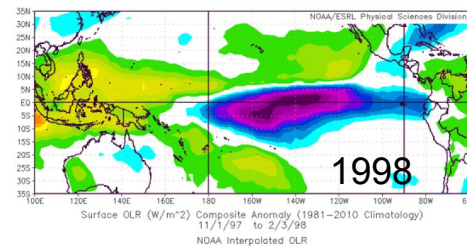
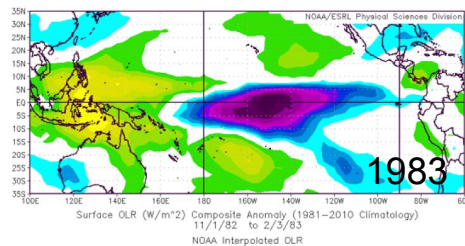
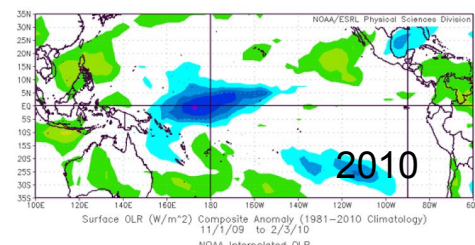
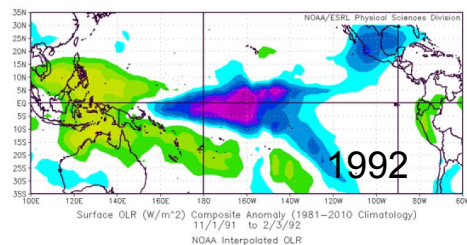
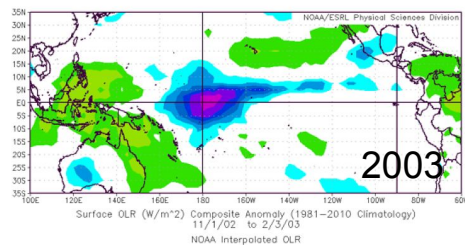
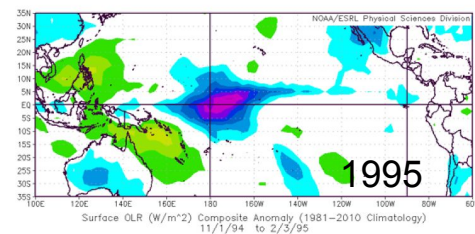
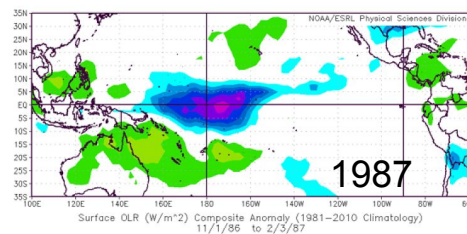
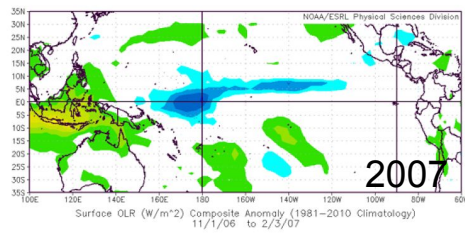


Medium - Long Range Forecast

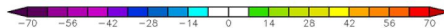
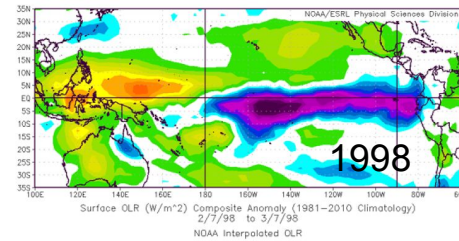
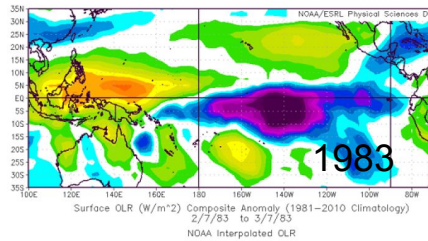
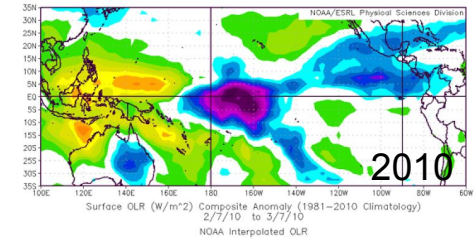
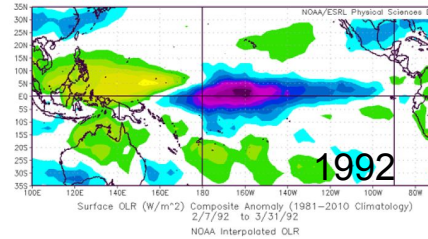
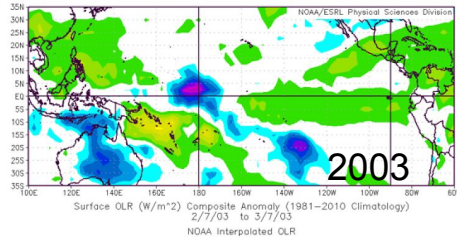
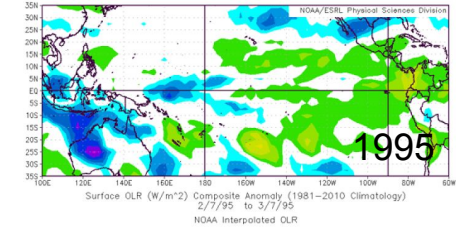
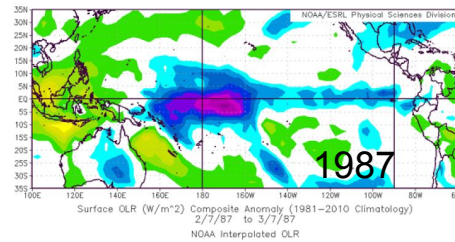
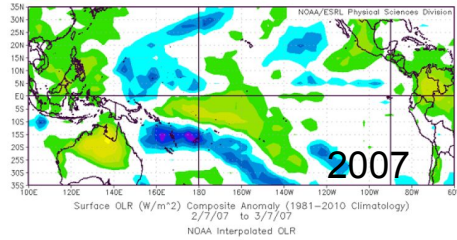
Day 7-10 Initialized 00Z FRI 12 Feb



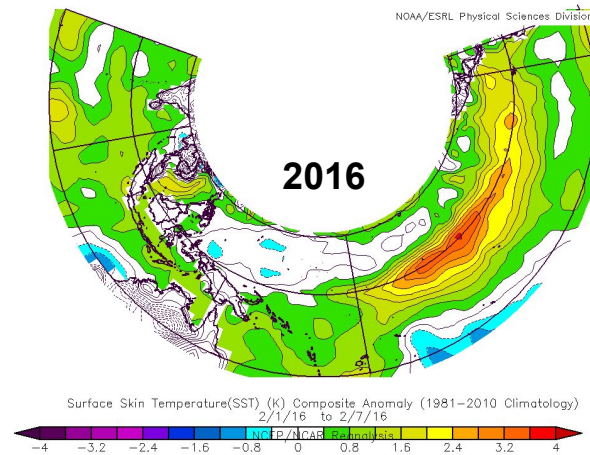
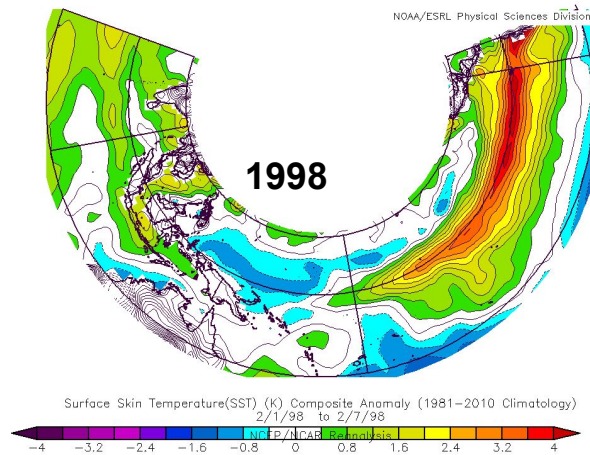
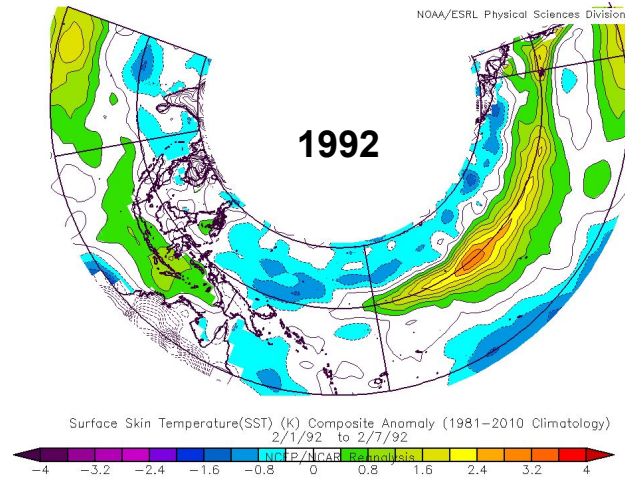
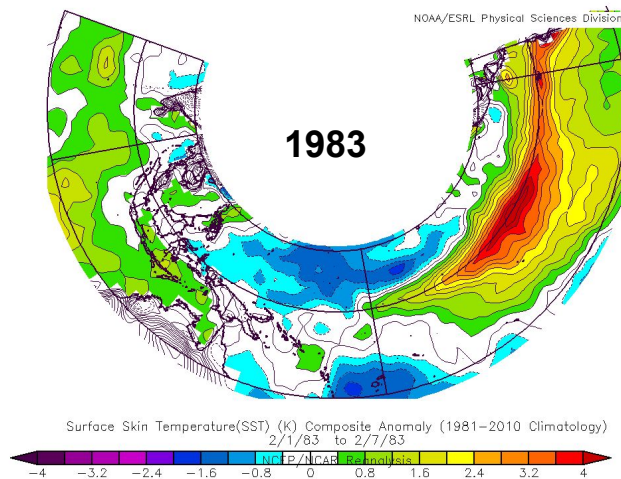
Observed OLR Anomalies : 1 Nov - 3 Feb

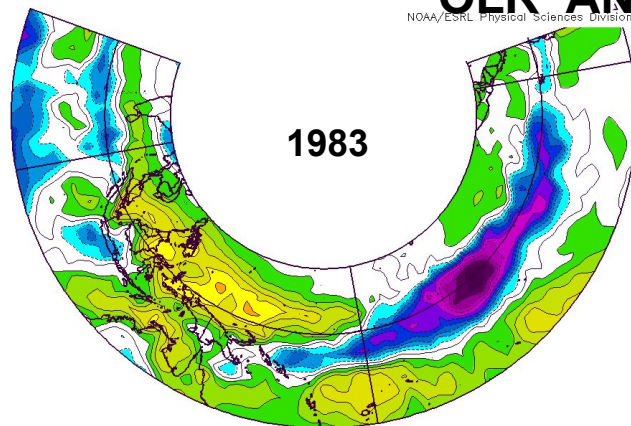


Observed OLR Anomalies : 7 Feb - 7 Mar

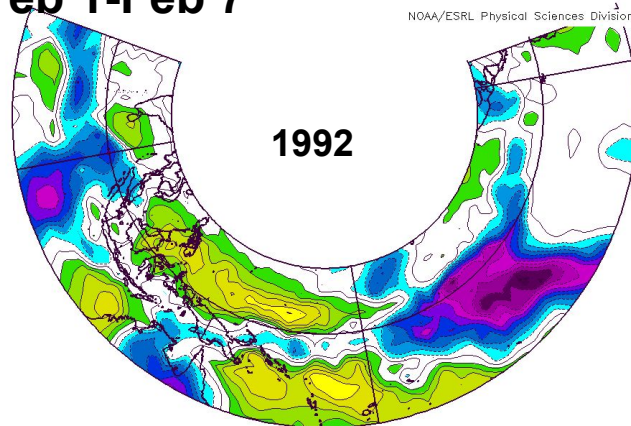
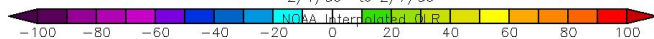


SST ANOM Feb 1-Feb 7

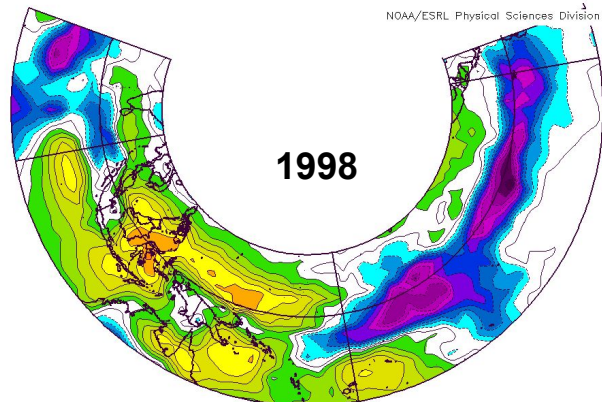
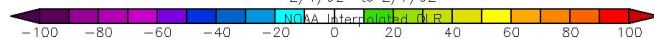




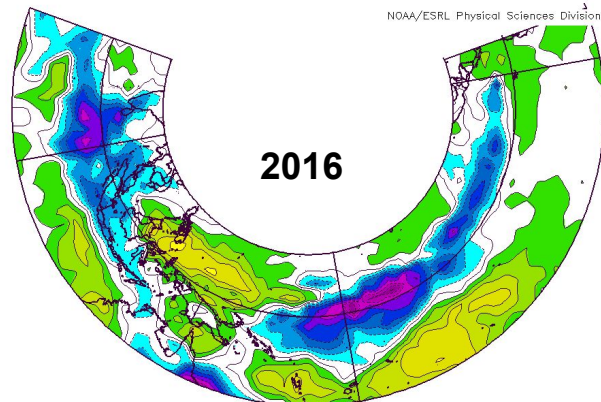
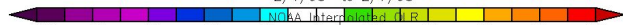
Surface OLR (W/m^2) Composite Anomaly (1981–2010 Climatology)
2/1/83 to 2/7/83



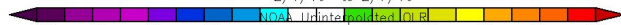
Surface OLR (W/m^2) Composite Anomaly (1981–2010 Climatology)
2/1/92 to 2/7/92

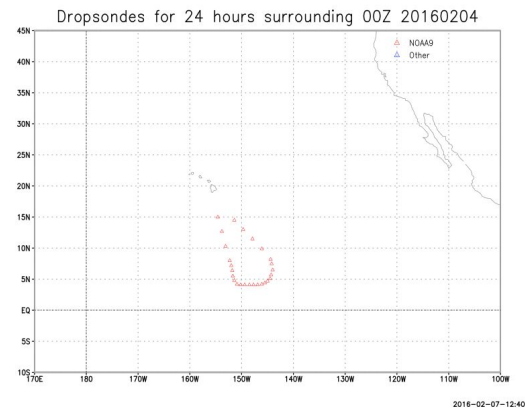
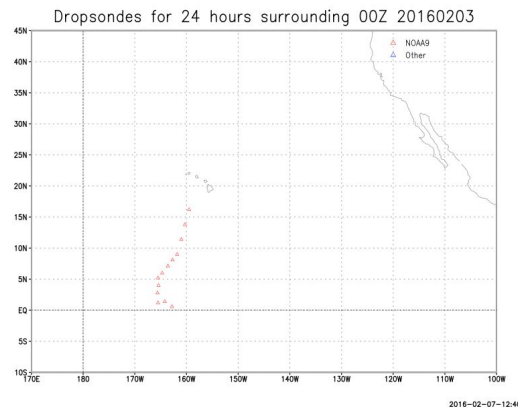
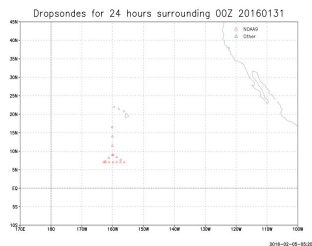
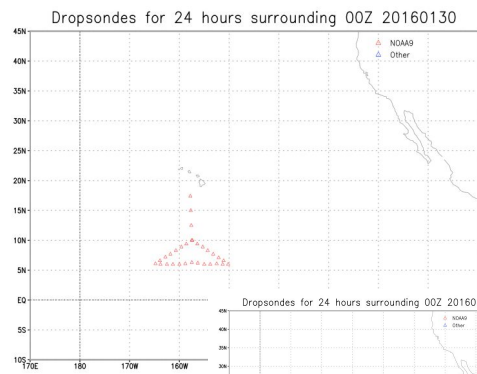
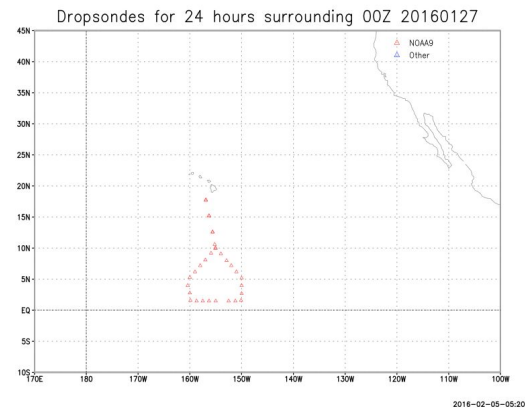
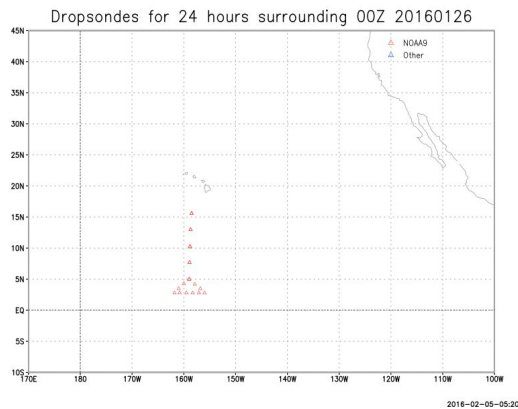
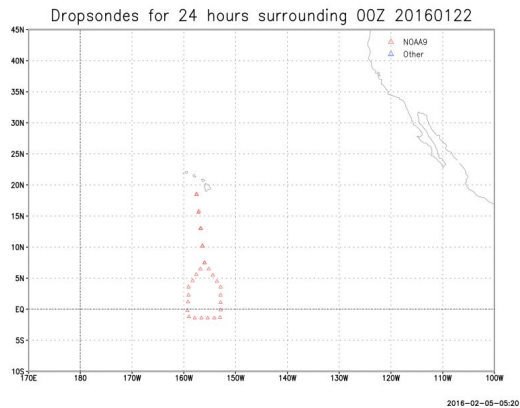


Surface OLR (W/m^2) Composite Anomaly (1981–2010 Climatology)
2/1/98 to 2/7/98



Surface OLR (W/m^2) Composite Anomaly (1981–2010 Climatology)
2/1/16 to 2/7/16





G-IV Missions: Dropsonde Input to NOAA Global Analysis